



CITY OF WARWICK
PURCHASING DIVISION
3275 POST ROAD
WARWICK, RHODE ISLAND 02886
TEL. (401) 738-2000, ext. 6240
FAX (401) 737-2364

SCOTT AVEDISIAN
MAYOR

JAMES F. MARCELLO
PURCHASING AGENT

The following notice is to appear on the City of Warwick's website Friday, June 10, 2011. The website address is <http://www.warwickri.gov/bids>.

CITY OF WARWICK
BIDS REQUESTED FOR

**Bid #2012-30 Advanced Life Support, Type III, Class I Modular Ambulance
with Mid-Duty Chassis (In Stock or Demo)**

Specifications are available in the Purchasing Division, Warwick City Hall,
Monday through Friday, 8:30 AM until 4:30 PM on or after Friday, June 10, 2011.

Sealed bids will be received by the Purchasing Division, Warwick City Hall, 3275 Post
Road, Warwick, Rhode Island 02886 up until 10:00 AM, Friday, June 24, 2011. The bids
will be opened publicly commencing 10:00 AM, on the same day in the Lower Level
Conference Room, Warwick City Hall.

Awards shall be made on the basis of the lowest evaluated or responsive bid price.
Please note that no bids can be accepted via email or fax.

Individuals requesting interpreter services for the hearing impaired must notify the
Purchasing Division at 401-738-2000, Ext. 6241 or TDD at 401-739-9150 at least
48 hours in advance of the bid opening date.

Original Signature on File

James F. Marcello
Purchasing Agent

**CITY OF WARWICK
NOTICE TO BIDDERS**

**Bid #2012-30 Advanced Life Support, Type III, Class I Modular Ambulance
With Mid-Duty Chassis (In Stock or Demo)**

Specifications are available in the Purchasing Division, Warwick City Hall, Monday through Friday, 8:30 AM until 4:30 PM on or after Friday, June 10, 2011. They can also be obtained on the City of Warwick's website:
<http://www.warwickri.gov/bids>.

Sealed bids will be received by the Purchasing Division, Warwick City Hall, 3275 Post Road, Warwick, Rhode Island 02886 up until 10:00 am, Friday, June 24, 2011. The bids will be opened publicly commencing 10:00 AM, on the same day in the Lower Level Conference Room, Warwick City Hall.

The opening of bids shall be in the order established by the posted agenda and the agenda shall continue uninterrupted until completion.

Once an item has been reached and any bids on that item has been opened, no other bids on that item will be accepted and any such bid shall be deemed late.

The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap for any position for which the employee or applicant is qualified and that in the event of noncompliance the City may declare the contractor in breach and take any necessary legal recourse including termination or cancellation of the contract.

A bidder filing a bid thereby certifies that no officer, agent, or employee of the City has a pecuniary interest in the bid or has participated in contract negotiations on the part of the City, that the bid is made in good faith without fraud, collusion, or connection of any kind with any other bidder for the same call for bids, and that the bidder is competing solely in his own behalf without connection with, or obligation to, any undisclosed person or firm.

All bids should be submitted with one (1) original and four (4) copies, ***copies must contain all documentation included in each copy*** and submitted in a sealed envelope. The exterior of the envelope shall be plainly marked to include: *YOUR COMPANY NAME* and **"Bid #2012-30 Advanced Life Support, Type III, Class I Modular Ambulance with Mid-Duty Chassis (In Stock or Demo)"**. Bids received prior to the time of the opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a bid not properly addressed and identified. No bids shall be accepted via facsimile or email.

Should you have any questions, please contact Joseph Pfeiler, EMS Coordinator, Warwick Fire Department, 111 Veterans Memorial Dr., Warwick, RI at 401-468-4063.

All bids should be written in ink or typed. If there is a correction with whiteout, the bidder must initial the change.

Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it is opened.

Any deviation from the specifications must be noted in writing and attached as part of the bid. The Bidder shall indicate the item or part with the deviation and indicate how the bid will deviate from specifications.

If you received this document from our homepage or from a source other than the City of Warwick Purchasing Division, please check with our office prior to submitting your bid to ensure that you have a complete package. The Purchasing Division cannot be responsible to provide addenda if we do not have you on record as a plan holder.

The successful bidder must provide the City of Warwick with an original certificate of insurance (faxes are not acceptable) naming the City of Warwick as the additional insured and so stated on the certificate with the bid name and bid number. It is the vendor's responsibility to provide the City of Warwick with an updated Certificate of Insurance upon expiration of the original certificate.

The certificate of insurance shall include the City of Warwick as the additional insured for the following coverage: general liability, product liability (in the amount of \$4,000,000.00) and automotive liability.

The successful bidder will provide said insurance within ten (10) calendar days after notification of award or the City reserves the right to rescind said award.

Failure to provide adequate insurance coverage within the specified duration of time as set forth is a material breach of contract and grounds for termination of the contract.

Prices are to be held and valid for a minimum of sixty (60) calendar days.

The contractor must carry sufficient liability insurance and agree to indemnify the city against all claims of any nature, which might arise as a result of his operations or conduct of work.

The IRS Form W-9 attached must be completed and submitted with the bid if the bidder falls under IRS requirements to file this form.

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph I, as amended.

The Purchasing Agent reserves the right to reject any and all bids, to waive any minor deviations or informalities in the bids received, and to accept the bid deemed most favorable to the interest of the City.

The City reserves the right to terminate the contract or any part of the contract in the best interests of the City, upon 30-day notice to the contractor. The City shall incur no liability for materials or services not yet ordered if it terminates in the best interests of the City. If the City terminates in the interests of the City after an order for materials or services have been placed, the contractor shall be entitled to compensation upon submission of invoices and proper proof of claim, in that proportion which its services and products were satisfactorily rendered or provided, as well as expenses necessarily incurred in the performance of work up to time of termination.

No extra charges for delivery, handling or other services will be honored. All claims for damage in transit shall be the responsibility of the successful bidder. Deliveries must be made during normal working hours unless otherwise agreed upon.

Warranty periods shall not commence until the City of Warwick inspects and formally accepts the goods and/or services. The terms, conditions and timing of acceptance shall be determined by the City of Warwick. The City of Warwick reserves the right to reject any or all items or services not in conformance with applicable specifications, and Contractor assumes the costs associated with such nonconformance. Acceptance of goods and/or services does not constitute a waiver of latent or hidden defects or defects not readily detectable by a reasonable person under the circumstances

All costs directly or indirectly related to the preparation of a response to this solicitation, or any presentation or communication to supplement and/or clarify any response to this

Solicitation, which may be required or requested by the City of Warwick shall be the sole responsibility of and shall be borne by the respondent.

If the respondent is awarded a contract in accordance with this solicitation and the respondents bid or response and if the respondent fails or refuses to satisfy fully all of the respondents obligations thereunder, the City of Warwick shall be entitled to recover from the respondent any losses, damages or costs incurred by the City as a result of such failure or refusal.

The City reserves the right to award in part or full and to increase or decrease quantities in the best interest of the City.

Any quantity reference in the bid specifications are estimates only, and do not represent a commitment on the part of the City of Warwick to any level of billing activity. It is understood and agreed that the agreement shall cover the actual quantities ordered during the contract period.

The City reserves the right to rescind award for non-compliance to bid specifications.

The successful bidder must adhere to all City, State and Federal Laws, where applicable.

INSTRUCTIONS TO BIDDERS

GENERAL STATEMENT

The City of Warwick is seeking to purchase an ambulance/rescue for service as an Advanced Life Support transport vehicle for 911 emergency responses by the Warwick Fire Department. Said fire department ambulance/rescue is expected to perform well thru a service life of minimum five years averaging 35,000 miles and 3,100 responses per year. In addition it will be expected to provide an additional four years of service as a reserve ambulance/rescue. City of Warwick and the Warwick Fire Department seeks an ambulance/rescue modular capable of future refurbishment and remount to a new chassis. Bids of existing stock or demo vehicles will be considered and are being sought.

To be considered, all proposals must be made in accordance with these **"Instructions to Bidders"**. Each bidder is required to provide in the proposal, a complete and accurate description of vehicle. In the event the bidder's vehicle does not meet the exact terms of any specification listed below, bidder shall indicate **"No"** and then provide details as to how they are equal to or superior to listed specification. City of Warwick will accept equal or superior variations if properly documented.

The City of Warwick reserves the right to reject any and all bids in the best interest of the Warwick Fire Department and City of Warwick. The City of Warwick also reserves the right to purchase the apparatus that, in its opinion, is best suited for its needs, and not necessarily the lowest bidder.

INTENT

1. It is the intent of these specifications to provide minimum requirements for the manufacturing of an Advanced Life Support, Type III, Class I, modular ambulance on a mid-duty chassis such as Chevrolet CC4500, International 4300 Navistar or equal. These specifications are designed to protect the purchaser and to establish essential criteria for design, performance, and appearance of the vehicle, as well as the manufacturer of the product. This vehicle must be an industry standard ambulance meeting all requirements of the State of Rhode Island Department of Health, Division of Emergency Medical Services for licensure as an A-1 transport ambulance.

Does your bid comply? Yes_____ No_____

2. Due to the complexity of the emergency vehicle, bids from dealers must be signed by an officer of the company. The manufacturer must be represented locally by a full time dealer. Bids from manufacturers with no local full time dealer or sales agent will not be accepted. The City of Warwick actively seeks bids of existing in-stock or demo vehicles. No previously in-service vehicle will be accepted.

Does your bid comply? Yes_____ No_____

3. In order to avoid divided responsibility, only bids from manufacturers who build their own bodies will be considered. Manufacturers, who buy bodies from another manufacturer, whether in a finished or unfinished state, will not be accepted.

To maintain proper control of quality, no aspects of the manufacturing and assembly of this vehicle shall be subcontracted to another. Certification shall be included in the bid.

Does your bid comply? Yes_____ No_____

4. Where a brand name component is specified, an "OR EQUAL" product may be substituted. Brand name items mentioned in these specifications are used to establish the level of quality required. The Warwick Fire Department shall be the judge as to whether or not the substitution qualifies as "OR EQUAL".

Does your bid comply? Yes_____ No_____

5. It is the bidder's responsibility to explain all exceptions in detail on a separate sheet, indicating the paragraph in the purchaser's specifications where he is taking exception and his reason for same. The Warwick Fire Department shall be the judge as to whether or not the exception is, in fact, acceptable.

Does your bid comply? Yes____ No____

6. Bidders must submit complete detailed construction specifications covering products offered for the vehicle as proposed. A general statement or letter stating that the bidder meets all specifications will not be sufficient evidence of bidder's intention, nor will a photostatic copy of these specifications be acceptable. Bidder's specifications must follow same sequence as that used in these specifications for ease in comparison.

Does your bid comply? Yes____ No____

WARRANTY POLICIES

7. Bids are to contain the following minimum warranty policies:

A. Chassis – Basic: **two years, unlimited miles**, bumper to bumper as provided by chassis manufacturer.
Drivetrain: Five years, 100,000 miles on diesel engine
Five years, Unlimited Miles on Automatic Transmission

Cab-Corrosion-Perforation: Five years, Unlimited Miles

Rear Axle: Two years, Unlimited Miles

Frame Rails and Cross Members: Five years, Unlimited Miles

Does your bid comply? Yes____ No____

B. Structural integrity of body shall be **guaranteed for the life of the unit**, as long as the original purchaser shall own it.

Does your bid comply? Yes____ No____

C. Ambulance conversion including the oxygen, mechanical, cabinetry, upholstery, flooring, door securing hardware and latches shall be covered by a **3 year, 36,000 mile** limited warranty.

Does your bid comply? Yes____ No____

D. Paint finish shall be covered from date of delivery by a **Ten-year Paint Performance Guarantee**. Warranty shall provide for 100% labor and material for Coating System Integrity, coating adhesion, and UV related degradation as well as Gloss and color retention, cracking or checking of the paint film and delamination from substrate. A **3 year, 36,000 mile, Dissimilar Metals - Crevice Corrosion** 100% labor and material guarantee shall be provided. Prorated coverage for either of these paint warranties will not be acceptable.

Does your bid comply? Yes____ No____

E. Bidder must certify that the electrical system as installed by the manufacturer will be covered by a **10 year, 100,000 mile** limited warranty. Warranty shall cover the following electrical equipment: body door post switches, all wire terminals and crimps, main vehicle wiring harness and battery harness cables, relays, switches, automatic/manual reset circuit breakers, voltmeter, ammeter, battery disconnect switches, solenoids, all terminal strips, manufacturer installed electrical connections and power distribution panel.

Does your bid comply? Yes____ No____

F. Bidders must include statements of warranty policies with the bid.

Does your bid comply? Yes____ No____

QUALIFICATIONS

8. These qualifications are established as minimum performance criteria to protect the purchaser for service after the sale, in addition to the necessary qualifications for the manufacturer and their ability to build, service and repair a quality product.

A. Bidder shall be responsible for arranging vehicle transport to a service center or delivering mobile service to the Warwick Fire Department facility. Bidder must maintain its' own service center within 100 miles of the purchaser. The personnel shall be factory trained in ambulance repair and shall offer "On Site" service using its' own mobile service truck. Bidders who do not provide on- site service or do not employ their own service personnel will be deemed unacceptable.

Does your bid comply? Yes _____ No _____

B. Manufacturer's Service Center shall maintain an on-site body shop repair facility with an environmentally protected paint spray booth. Collision repairs shall not be subcontracted to others.

Does your bid comply? Yes _____ No _____

C. Manufacturer's service center shall maintain a complete on-site parts inventory including raw materials and components to repair the vehicle.

Does your bid comply? Yes _____ No _____

D. Bidder and manufacturer must indicate size of manufacturing/service facility, location, and number of full time employees.

Size _____
Location _____
Number of full time employees _____

Does your bid comply? Yes _____ No _____

E. The manufacturer must be engaged actively in the business of manufacturing emergency medical vehicles and submit proof of such for period of not less than five prior years by current ownership and name.

Does your bid comply? Yes _____ No _____

F. Bidder must provide with the bid a list of units with similar design, delivered and in service in the Northeast states of New England, New York, Pennsylvania and New Jersey. Individual contact names with phone numbers shall be provided.

Does your bid comply? Yes _____ No _____

G. Delivery of vehicle will be a deciding factor in the award of the bid. **Completed vehicle must be delivered no later than 60 days after receipt of signed contract. There is a strong preference for early delivery.**

Delivery Date in Calendar Days ARO _____.

Does your bid comply? Yes _____ No _____

H. Prior to award of contract, any prospective bidder shall provide the bid vehicle or a new demonstrator ambulance of the same model as the ambulance being bid for inspection and test driving purposes. This inspection and test will include actual loading onto the vehicle of all present and anticipated equipment and supplies carried by Warwick Fire Department Rescues currently in service. Approximate weight of equipment and supplies is 1,300 pounds plus addition weight for crew and patients. Inspection will also be made with City of Warwick Department of Public Works Garage to include determining their capabilities for repair and maintenance of vehicle.

Does your bid comply? Yes_____ No_____

I. All bidders are required to include with their bid detailed CAD blueprints of the unit they propose; showing the left, right, and rear exterior, the left, right, front, and top views of the interior. NO EXCEPTIONS. Bids not containing these Blueprints will not be accepted. THESE BLUEPRINTS MUST BE PROVIDED BY THE AMBULANCE MANUFACTURER TO INSURE FULL COMPLIANCE AND UNDERSTANDING OF THE COMPLEXITY OF THIS VEHICLE. Bidders may not use the purchaser's sketches for this purpose.

Does your bid comply? Yes_____ No_____

J. All forms must be filled in and signed by corporate officer of the bidder, stamped with the company seal and returned with the bid. Bids signed by sales representatives shall be declared informal and will not be accepted.

Does your bid comply? Yes_____ No_____

K. A detailed weight and electrical load analysis from the manufacturer shall be provided with the bid. Analysis shall be generated specifically for vehicle as per the bid specification, not a general statement.

Does your bid comply? Yes_____ No_____

L. The manufacturer must supply at time of delivery, a complete detailed operating manual for the ambulance including full wiring schematics custom prepared for each vehicle.

Does your bid comply? Yes_____ No_____

M. All bidders must submit as part of their proposal sample set of wiring diagrams showing the manufacturer's basic wiring system.

Does your bid comply? Yes_____ No_____

N. The delivered ambulance shall have a certified GVWR weight sticker attached to the vehicle to assure the ambulance meets all requirements pertaining to the weight carrying capacity of the vehicle. Upon delivery the ambulance must be capable of being loaded with an additional 2,400 pounds.

Does your bid comply? Yes_____ No_____

CERTIFICATIONS

9. The following certifications should be provided by the manufacturer with the bid.

A. Manufacturer must provide proof of product liability insurance in the amount of \$4,000,000.00

Does your bid comply? Yes_____ No_____

B. Bidder must certify manufacturer to have KKK-1822E certification for the model of ambulance being bid.

Does your bid comply? Yes_____ No_____

EXCEPTIONS TO THE SPECIFICATIONS

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____
- 9) _____
- 10) _____
- 11) _____
- 12) _____

SUBMIT ADDITIONAL PAGES IF NECESSARY.

MEDIUM DUTY TYPE III AMBULANCE SPECIFICATIONS

The City of Warwick actively seeks bids of existing in stock or demo vehicles.

VEHICLE DIMENSIONS:

Overall Vehicle Dimensions:

Length: 284"

Width: 99"

Height: 111"

Exterior Modular Body Dimensions:

Length: 170"

Width: 97"

Height: 91"

Interior Modular Body Dimensions:

Length: 160"

Width: 90 3/4"

Height: 72"

INTERIOR HEADROOM:

Bidder Complies YES _____ NO _____

The Headroom clearance from the finished floor to the overhead ceiling panel shall be 72".

COMPARTMENT "A"

Bidder Complies YES _____ NO _____

Left front, full height storage of "M" size oxygen cylinder in KKK certified bracket and mounting system.

Dimensions: 20" wide x 86" high x 21 3/4" deep

OXYGEN BOTTLE MOUNT, UNIVERSAL MOUNT:

Bidder Complies YES _____ NO _____

The vehicle shall be equipped with a mount for an "M" or "H" oxygen cylinder in the oxygen storage compartment. The mount shall be an approved Ziamatic Model QR-MV, oxygen bottle retention system for an "M" or "H" size bottle. The mounting bracket shall be securely bolted to two Uni-Strut tracks welded to the vehicle framework. The entire mounting system shall be tested to the requirements of AMD-003; oxygen tank retention system. Test Documentation shall be provided upon request. The use of mounting brackets other than Ziamatic brand is unacceptable.

OXYGEN CYLINDER WRENCH:

Bidder Complies YES _____ NO _____

An oxygen cylinder wrench shall be permanently attached to the wall of the oxygen compartment with a 24" ball type swivel restraining chain covered with clear plastic flexible tubing. The wrench shall be held to the wall with Velcro strapping when not in use.

COMPARTMENT "B"

Bidder Complies YES _____ NO _____

Left side half high storage; in front of left rear wheel. Two (2) adjustable aluminum diamond plate shelves shall be mounted on Unistrut shelving standards.

Dimensions: 40 3/8" wide x 42" high x 21 3/4" deep

COMPARTMENT "C"**Bidder Complies** YES____ NO____

Left rear half high compartment; behind left rear wheels with two (2) adjustable aluminum diamond plate shelves shall be mounted on Unistrut shelving standards.

Dimensions: 30 1/2" wide x 39" high x 21 3/4" deep

LEFT REAR INTERIOR CABINET, LOWER:**Bidder Complies** YES____ NO____

A storage cabinet shall be provided in the lower left rear corner of the body above counter level. The cabinet shall have two (2) 1/2" acrylic hinged transparent doors, each with a Southco Polished Stainless Steel positive latching device and one (1) adjustable shelf.

Includes (1) adjustable shelf

COUNTER TOP REAR COUNTER AREA:**Bidder Complies** YES____ NO____

The counter surface in the rear counter area shall be covered by a seamless solid surface counter top material. The counter top shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. ABS or other plastic surfaces are not an acceptable substitution.

COMPARTMENT "D"**Bidder Complies** YES____ NO____

Right front inside/outside storage compartment. This compartment shall allow access to contents from the exterior or the interior of the vehicle above the vehicle floor level. Below the floor shall be an outside only access of the lower compartment.

Dimensions: 20" wide x 52" high x 21 3/4" deep

COMPARTMENT "E"**Bidder Complies** YES____ NO____

Right rear 24" wide compartment; behind right rear wheels for storage.

Dimension: 24 1/2" wide x 83" high x 21 3/4" deep

EXTERIOR MODULAR BODY**EXTERIOR, ALUMINUM BODY CONSTRUCTION****FRAMES:****Bidder Complies** YES____ NO____

The module body shall consist of an electric welded, unitized aluminum roll cage structure throughout. The framework shall consist of six individual frames that are constructed in such a manner to insure squareness and flatness before being assembled into a box configuration.

MATERIAL:**Bidder Complies** YES____ NO____

All material used on any frame member, corner and upper cove shall be high strength aluminum alloy. This alloy shall be 6061-T6. The use of lesser materials such as 5052 or 6063 is not allowed due to its lesser mechanical properties. The ultimate strength of 6061-T6 is approximately 25% greater than 5052 and 6063 alloy. Material certifications showing 6061-T6 alloy shall be provided upon request to verify the use of this material for all frame members.

WELDING:**Bidder Complies YES_____ NO_____**

All welding done on any part of the frame structure shall be done by welders tested in welding this alloy and type of structure. Welders testing certifications shall be provided upon request. All butt welds shall have 100% weld penetration using a filler wire approved for this alloy aluminum. All welding shall be done in accordance with American Welding Society (AWS), Structural Welding Code.

FLOOR FRAME:**Bidder Complies YES_____ NO_____**

The main floor structure shall consist of a primary load bearing support frame. This primary frame shall consist of 2"x3"x.125" square wall tubular aluminum. This primary frame is of critical importance to the structural integrity of the module. The use of channel sections or frame members less than 2" x 3" x .125" is not acceptable due to its moment of inertia and section modulus calculations are less than minimum acceptable. The secondary support frames of the floor frames shall consist of 2"x 2" x .125" (square) and 1 1/2" x 2" x.125" (rectangular) wall tubular aluminum. Areas between exterior compartments and sub-floor support members shall be a minimum of 2"x 2" x .125 (square).

VERTICAL FRAMES:**FRAMES, Left and Right Sides:****Bidder Complies YES_____ NO_____**

The vertical left and right side frames shall consist of a heavy- duty custom aluminum extrusion members. The vertical corner and horizontal upper "Main Beam" shall consist of an extrusion with the minimum dimensions of 5 3/4 by 3 7/8 inches with a cross section across the web of .1875 inches. Built into the inside edge of the vertical and horizontal section shall be an area where the exterior door seal shall mate. This door jam area shall be designed into, and be part of the main corner extrusion. Door jam sections which are welded in place are unacceptable due to the possibility of the welds cracking which in turn leads to door and or exterior paint cracking and failure. The inside door jam which is part of the structural member (not a welded section) shall have minimum dimensions of 1 inch wide by 1 1/4 inches deep and have minimum side vertical wall thicknesses of .1875 inches. This door seal and jam section shall be recessed behind the exterior surface of the body approximately 7/8 of an inch to allow for the door seal to be placed outboard of the door latches and provide for a full uninterrupted hollow core door seal mounted on every door. Each door of the vehicle shall seal on this integrated section of the extrusion. The outer exterior mounted finish trim shall be sealed to the body during fabrication. The sealant used shall be a high strength automotive product which can be painted. All parts which utilize sealant shall not be structural members but just trim sections. The FMVSS 206 Rated door closure bolt shall be mounted directly to this structural member and not to a welded door jam section. Door alignment shall be maintained by discrete alignment grooves extruded in the custom shape. This designed in feature eliminates the need for excessive adjustment allowance which could become maintenance issues at some future time. The area of the structural member which is in contact with the roof box beams shall incorporate a 1/2 inch flange to carry the load of the roof structure and resulting static load when applied. This support flange is utilized to prevent the need for the roof and roof structure to be held in place by the welds only.

The main support, structural members around the door openings shall incorporate a built in door seal and jam surface similar to the one found around the main corner extrusion, with all the strength and design features the same. Two distinctly different types of structural members shall be used for different types of door configurations. Doors which are placed in the modular body which are not adjacent to any other door shall utilize an extrusion with the overall dimensions of 3 inches wide by 2 inches deep. This extrusion shall form the two vertical and two horizontal door seal, and jam surfaces. Doors of this type which are placed on the forward most or rear most positions of the body, shall utilize the main corner extrusion with its built in door seal to act as one side of the structural door seal and jam surface. For the same reason a door which extends the full height of the modular body shall utilize the upper most main corner extrusion for the top horizontal door seal and jam surface. Door configurations which have two doors adjacent to one another shall utilize a structural body extrusion with minimum dimensions of 4 inches wide by 2 inches deep.

Between each door shall be a minimum of a 2 inch structural wall and floor support. Under no circumstances shall two adjacent compartments not include this 2 inch structural member. Similar to previous door structural extrusions this member shall incorporate two built in door sealing surfaces without the need for welding additional parts as stated previously.

The remaining structural members of the vertical side frames shall utilize 2 inch by 2 inch by .125 inch thick wall and 1 1/2 inch by 2 inch by .125 inch thick wall structural box beam members. All members of the side vertical frames shall be placed at a maximum of 12 inches on center. Closer spacing shall be utilized in areas of critical strength requirements. Along the floor line, shall be 2 inch by 2 inch by .1875 inch structural angle attached to the side frame, which then during assembly into a module shall be fully welded to the floor frame. These members shall act as the main attachment point for the side frames, where the vertical frames meet the floor frame, and at this point of attachment full welds shall be utilized.

Or equal in structural integrity. Explain in detail.

VERTICAL FRAMES, Front and Rear:

Bidder Complies YES_____ NO_____

The front and rear frames shall be fabricated utilizing the same main structural corner extrusion as the side vertical frame along the horizontal top edge. The remaining structural members of this frame shall utilize 2 inch by 2 inch and 2 inch by 1 1/2 inch by .125 inch structural box beam members. These structural members shall be placed on a minimum of 20 inches on center. A closer spacing shall be utilized in areas of critical strength. Rear facing door openings shall utilize custom aluminum extrusions in place of box beam members as required. The door openings shall be exactly as specified for the doors located on the vertical side frames as described previously.

Or equal in structural integrity. Explain in detail.

ROOF FRAME:

Bidder Complies YES_____ NO_____

The roof frame of the vehicle shall be fabricated from 2 inch by 1 1/2 inch by .125 inch box beam structural members. The transverse frame members shall be spaced a maximum of 12 inches on center.

Or equal in structural integrity. Explain in detail.

MODULE ASSEMBLY:

Bidder Complies YES_____ NO_____

The six frames as previously stated shall be assembled into a module, including the floor, front, rear, two sides and roof sub frame before any of the exterior skin is applied. The structural frame work shall be a self supporting body and not require the use of the exterior skin for structural integrity. The framed body, without the skin shall be capable of supporting the required static load of the vehicle per A.M.D. 001 specifications.

The floor frame shall be welded to the two vertical side frames at the area of the floor, in front and behind the wheel box area. This welding shall be 100% continuous in these areas.

The full perimeter welding and center bonding of the exterior panels shall enhance the overall strength of the modular body.

Or equal in structural integrity. Explain in detail.

SIDE IMPACT PROTECTION

BODY PROTECTION

Bidder Complies YES _____ NO _____

Per Federal Motor Vehicle Safety standards, the vehicle shall be designed to protect the occupants or equipment from side impacts. This shall be accomplished by: (a) Two side impact rails with minimum dimensions of, 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam member located approximately 24 inches from the lower side rail; and approximately 18 inches from the upper side (b) full structural members which extend across the body in the transverse direction between the compartments.

Or equal in structural integrity. Explain in detail.

MODULAR BODY DOOR PROTECTION

Bidder Complies YES _____ NO _____

In addition to the vertical body sides, each door with a vertical height greater than 30 inches, on the left and right sides of the vehicle shall incorporate a 2 inch by 5 inch by .125 inch 6061-T6 aluminum alloy, structural box beam members. Each member shall be welded to the interior door extrusions. The structural members shall be placed approximately 24 inches from the lower side rail. There shall be no exceptions to side impact protection in modular body doors.

EXTERIOR PANELS:

Bidder Complies YES _____ NO _____

The two sides, front and rear shall be covered with .125" thick 5052-H34 stretcher leveled aluminum alloy sheet. The center areas of the sheets shall be applied using "Very High Bond" structural bonding tape. Before any tape is applied to the structure, both the sheets and the structure shall be thoroughly cleaned with an approved solvent. In addition to the structural bonding tape the exterior skin shall be welded along the perimeter corners and along all door openings. This welding is only done in areas that will not show dimple on the finished body module. The side panels of the vehicle shall be single piece and not welded or fabricated.

Additional welding shall be done at the lower rub rail area where the body exterior panels meet the lower structural support members. This welding is done to completely bond the exterior panel to the substructure in an area where weld dimples will not show on the finished vehicle.

Or equal in structural integrity. Explain in detail.

ROOF SHEET:

Bidder Complies YES _____ NO _____

The roof sheet shall be a one piece sheet of .125" 5052-H34 aluminum. There shall be no seams in the roof panel or any overlapping seams. The roof sheet shall be fully welded to the roof sub frame from the inside. The outside perimeter of the roof sheet where it meets the upper cove shall be 100% welded prior to painting. This 100% welding eliminates the need for caulks or sealers and the possibilities of water leaks into the body.

Or equal in structural integrity. Explain in detail.

CORNER AND ROOF CORNER EXTRUSIONS:

Bidder Complies YES _____ NO _____

The exterior body corners and coves shall be an extruded aluminum section made of 6061-T6 aluminum. Both the corners and roof corner extrusions shall have a 1 5/8" radius hollow extrusion design with an inside flat mating surface. The exterior surface shall be designed to form a smooth transition at all corners of the body. The corners shall be designed in such a way as to provide an interlocking surface with the "Main Beam" extrusion. This surface contact shall provide a weld surface to attach the corners to the main beam. The process of attachment shall include threaded mechanical fasteners to pull the two surfaces tight prior to the welding. This provides a completely tight interface surface. To enhance the corner waterproof

integrity a recessed sealant groove shall be incorporated into the exterior flanged surface which is in contact with the body and roof exterior panels. This groove allows the surfaces to be sealed to prevent water infiltration and pre-vent corrosion. The corners shall be designed so they are NOT a structural component of the body, but means to provide a smooth exterior transition and water tight surface. NO EXCEPTIONS. Designs which include an integral exterior corner surface/structural member are unacceptable.

CORNER CASTINGS:

Bidder Complies YES _____ NO _____

The upper four corners of the module shall have a cast aluminum ball corner that matches the radius of the corner extrusions. This ball corner shall be completely 100% welded in place to prevent water leaks and finished to have a smooth transition at the corner.

Or equal in structural integrity. Explain in detail.

EQUIPMENT MOUNTING LOCATIONS & REINFORCEMENTS:

Bidder Complies YES _____ NO _____

Areas within the body that have equipment mounted or items bolted shall have additional structural members welded in place. The areas are as follows:

1. A .250" thick 1.25" by 2.5" structural angle to mount squad bench and seat belt restraints shall be installed on the side interior walls, including left side attendant seat. The entire assembly shall be tested and certified to F.M.V.S.S 210. Documentation shall be provided upon request.
2. Cot mounts shall be mounted/bolted to structural members welded within the floor structure. Cot mounts shall be tested and meet A.M.D. Standard A.M.D-004. Documentation shall be provided upon request.
3. Rear facing attendant seat pedestal shall be mounted to a reinforced structural channel members between the frame members of the floor structure. The entire assembly shall be tested to and certified to F.M.V.S.S. 210. Documentation shall be provided upon request.
4. The oxygen bottle retention bracket shall be bolted to a reinforcing structure within the storage compartment. Under No Circumstances shall an oxygen bottle be secured to interior cabinets only, they must always be bolted to a structural member of the module body. The entire assembly shall be tested to A.M.D-003.
5. Reinforcing plates for ceiling dome lights shall be installed between the roof frame members.
6. Double laminated reinforcing plates shall be installed in the front body frame for added strength in the areas where the body is bolted to the cab, in addition to structural angles in the front frame above the cab roof.

WHEEL WELL CONSTRUCTION:

Bidder Complies YES _____ NO _____

The rear wheel well housings shall be designed to OEM manufacturers recommended clearances. The inner well shall be formed to follow the contours of the wheel and be fabricated from .125 aluminum sheet, and extend down to the lower body skirt level. Tolerances shall include clearance for full tire chains. All wheel well housings shall be completely sealed and undercoated prior to mounting the body.

Bidder Complies YES _____ NO _____

LIFETIME STRUCTURAL WARRANTY

Manufacturer will warranty to original purchaser that the new emergency vehicle body (exclusive of paint finish) is structurally sound and free from all structural defects of both material and workmanship, and further warrants that it will maintain such structural integrity for the life of the body. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

The structural integrity of the body shall be guaranteed for the life of the unit, as long as the original purchaser shall own it.

CAB TO BODY RECESS, 8":

Bidder Complies YES____ NO____

The bulkhead directly behind the driver and passenger seats shall be recessed into the body for a minimum of 8" on driver side and a minimum of 7" on passenger side. This will allow for greater seat recline for drivers seat and provide space for placement of radio transmitters and rain or turnout gear. The recess shall be an integral part of the body construction and formed of aluminum tubing and .090 aluminum sheeting. The outer surface of the wall shall be covered with automotive carpet that matches the color of the cab interior. These panels shall not exhibit any sharp edges or corners.

EXTERIOR BODY LENGTH:

Bidder Complies YES____ NO____

The exterior length of the modular body shall be 170".

BODY MOUNTING M-DUTY RUBBER DONUTS:

Bidder Complies YES____ NO____

The modular body shall be mounted to the chassis in such a manner to facilitate easy removal for future remounting with other manufacturers' vehicle chassis having the same cab to axle dimensions. Mounting devices shall be ten (10) high strength 5/8" bolts five (5) on each side. Such bolts shall secure the body to the frame via rubber isolation mounting donuts. The rubber donuts shall be mounted to the frame of the chassis utilizing steel outriggers. The outriggers shall be bolted to the frame rail of the chassis.

LOWERED SIDE SKIRTS:

Bidder Complies YES____ NO____

The right and left side skirts of the body, forward of the rear wheels, shall be lowered 3" for easier access into the side entrance door and the left side forward compartment of the vehicle. An intermediate step shall be provided in the side entrance door step well constructed of aluminum diamond plate with a turtle tile non skid stepping surface on the intermediate step.

STEPWELL COMPARTMENT/ INTERMEDIATE STEP:

Bidder Complies YES____ NO____

Inside the side entrance door shall be a recessed stepwell compartment. The compartment shall extend into the body approximately 20 7/8" and be the full width of the side entrance door. An intermediate step shall be fabricated as part of the stepwell area. This intermediate step shall be a 8 1/2" step from the floor of the stepwell, and the actual floor of the ambulance shall be another 8 1/2" step.

The vertical sides of the compartment shall be fabricated from .100 polished aluminum diamond plate. The floor shall include non-skid turtle tile, removable with a drain/sweep out plug for ease of cleaning. The intermediate step shall also be provided with the same non skid turtle tile on the horizontal stepping surface. Aluminum diamond plate on the floor is unacceptable due to the slippery surface when wet.

The sub-floor of the compartment shall be fabricated from 3/16" aluminum plate to provide a heavy duty walk surface which will not flex under foot. The upper edge where the stepwell meets the flooring material shall include non-slip polished aluminum threshold trim which is screwed in place. The intermediate step shall be constructed to allow service access to the air compressor compartment which is located behind the stepwell area and bolted to the frame of the chassis.

DOOR CONSTRUCTION:**Bidder Complies** YES____ NO____

All doors including personnel and compartment doors shall be constructed of a custom designed extrusion made of 6061-T6 aluminum alloy, used in combination with a "Bent Box Pan" exterior door panel. The bent exterior door panel shall be fabricated from .125" 5052-H34 aluminum alloy panels that have the exact properties and quality as the exterior side panels. Each door pan shall be manufactured with a 3/4" sharp inside corner bend to minimize outside bend radius. The custom extrusion shall be 45 degree miter cut and fit into the 3/4" recessed area of the pan. The extrusion shall be fully welded to the door pan along the entire perimeter in addition to 100% welding on the outside corners of the door pan. The door shall have an overall dimension of 2 1/2", with the primary door seal being mounted to the door at the 3/4" dimension of the door exterior pan. The door latching hardware shall be mounted inboard of the seal in all cases. The door shall have gussets welded from the inside and shall be reinforced in areas where windows are to be installed and for areas where heavy objects might be hung from them.

The door extrusion shall be designed in such a way to provide two surface grooves which are used for proper alignment of the door hardware concealed within the door. The grooves shall be used for proper in-out placement of the hardware so that proper alignment is always maintained. All slots and cutouts required for the rotary latches shall be machined or stamped prior to the construction of the door.

Door configurations requiring double doors, shall utilize a structural member attached to the adjoining edge of the second opening door. This structural member shall match the seal surface of the door jams on the balance of the door opening. This member shall be welded in place and be a permanent member of the door. Add-on or bolted double door dividers are unacceptable.

Or equal in structural integrity. Explain in detail.

DOOR SEALS:**Bidder Complies** YES____ NO____

The door shall incorporate a continuous seal permanently attached around the entire perimeter of the door. Automotive latching hardware shall not interrupt the seal surface. The seal shall be a custom designed hollow core seal specifically designed for hinged doors. It shall be a "Dynamic" type seal with vent holes on the outside edge to allow for easier closing of door against seal. Flat open or closed cell solid rubber "Static" seals are not acceptable for hinged doors.

DOOR HINGES:**Bidder Complies** YES____ NO____

Each door shall be hung with stainless steel continuous hinges. The hinge shall have a 1/4" pin which is staked every six inches to prevent the pin from sliding. The hinges shall be held to the door and to the body using 1/4-20 stainless steel threaded machine fasteners every, 4" on both sides, use of rivets on hinges is not acceptable. All vehicle hinge bolts shall be installed with the use of LOC-TITE thread lock material. All hinges installed on the body shall include a Dielectric barrier between the dissimilar stainless steel hinge surface and the painted aluminum body. Only dielectric tape specifically designed for this purpose is acceptable. The tape shall have a dielectric barrier of .0035" and have a dielectric strength of 10,000 volt.

DOOR LATCH HARDWARE:**Bidder Complies** YES____ NO____

Every door shall utilize an automotive type rotary slam latch. All doors used for personnel access shall utilize two latches; one located on the top of the door the other at the bottom. Single point hardware for this type or any other type of door hardware is unacceptable. The latches shall meet FMVSS 206 standard and shall not be modified in any way to jeopardize its integrity. Latch pins without heads intact shall be cause for immediate rejection of vehicle.

All rotary slam latches shall be activated by adjustable steel rods. Cable activated rotary latches are unacceptable. All door hardware and rod assemblies shall be designed to minimize hardware rattle.

Compartments that require double opening doors shall incorporate (2) point latches on first closing door in addition to second closing door. The latches shall be activated by a handle in each compartment door on the exterior which matches the other exterior handles on the vehicle.

All door hardware, including rods and latches, shall be concealed within the inner door panel. Doors with any exposed latching hardware are unacceptable.

All door systems, including latches, hinges and body/door components shall be tested and certified to meet AMD-002. Test documentation shall be provided upon request.

ANODIZED ALUMINUM DRIP MOLDINGS: Bidder Complies YES____ NO____

Anodized extruded aluminum drip moldings shall be provided above all exterior compartment and entrance doors. The moldings shall be attached without the use of unsightly screws and shall be easily replaceable if damaged. This molding shall direct excess water away from the compartment and entrance door opening.

COMPARTMENT DOOR BUMPERS: Bidder Complies YES____ NO____

Heavy duty screw on type rubber (Styrene butadiene rubber, SBR) bumpers shall be installed on all compartments that may come in contact with one another.

DOOR SWEEP GASKET: Bidder Complies YES____ NO____

All modular body entrance doors shall be equipped with a door sweep EPDM rubber gasket. The rubber shall be attached to the top of the door and prevent water from collecting on the top of the door extrusion and dropping on the operator when the door is opened. The gasket/sweep material shall be installed in such a way as to prevent being torn off and increase its sealing potential when hit with a stream of water.

LOC-TITE: Bidder Complies YES____ NO____

All exterior door hinge bolts, inner door panels on both compartment and entrance door panel, and door latching bolts shall be installed with the use of LOC-TITE thread locking material.

TRIMARK COMPARTMENT DOOR HANDLES: Bidder Complies YES____ NO____

All compartment doors shall incorporate automotive style paddle handles. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch. The exterior handle shall have a black housing and chrome release paddle. Mounting hardware shall not be exposed to the outside for security reasons. All door hardware shall incorporate a custom designed rod activation system. This system shall be use in at least 500 Ambulances in service. Prototype systems are unacceptable.

Or equal in structural integrity. Explain in detail.

TRIMARK POWER LOCKING ENTRANCE DOOR HANDLES: Bidder Complies YES____ NO____

The right side and right and left rear entrance doors shall incorporate a Trimark automotive style paddle handle. This handle shall activate an F.M.V.S.S. approved rotary style automotive door latch, two latches per door. Single point door latches for entrance doors are unacceptable. The exterior handle shall have a black housing and chrome release paddle. There shall be no mounting hardware exposed to the outside for security reasons. The inside handles on all entrance doors including the left rear door, shall be a matching automotive design, flush paddle release type designed specifically for use with this system. Door hardware shall incorporate a rod activated power door locking system. This system shall be used in at least 500 Ambulances in service. Prototype systems are unacceptable. All rods used for interior door release mechanisms shall incorporate anti-rattle devices to prevent door hardware noise.

All entrance doors shall incorporate a power locking unlocking feature. The control of the power door locks shall be from a switch located on the drivers console. All handles shall have key activated override of power locking feature.

INTERIOR ENTRANCE DOOR PANELS:**Bidder Complies** YES____ NO____

The inside surface of the right side and rear entrance doors shall have three (3) sections. The upper shall be an aluminum panel covered with high pressure plastic laminates which matches the interior cabinets. The center area which covers the door hardware shall be a padded vinyl section and the lower panel shall be a single piece of polished aluminum diamond plate, to act as a wear surface. The panels shall be held in place with threaded mechanical fasteners and be removable for servicing of door hardware.

REMOTE KEYLESS ENTRY:**Bidder Complies** YES____ NO____

The power door lock switch located on the drivers' and passengers' side cab doors shall be wired to activate the power lock/unlock function of the ambulance body entrance doors (and compartment doors when power feature is specified). The switch shall be tied to the battery side of the master disconnect switch and function whenever depressed.

In addition to the cab door control of the power door locks, a remote keyless entry system shall be installed. The system shall lock and unlock the cab and ambulance doors as specified above. The vehicle shall be delivered with two remote keyless entry devices and programmed to operate with the vehicle. The remote device shall be capable of being attached to the key ring of the vehicle.

POWER DOOR LOCKS OVERRIDE SWITCH:**Bidder Complies** YES____ NO____

A concealed emergency override switch shall be provided and located as specified below;

Located in front grille area.

GAS SPRING DOOR HOLDERS:**Bidder Complies** YES____ NO____

All hinged compartment doors and right side entrance door shall incorporate a pneumatic gas spring door holder. The mounting bracket, piston end for the door side, shall be secured to the 1/4" gusset within the door. The door holder gas spring end shall be attached to compartment ceiling. The gas spring shall be installed with a 10 degree pitch downward to improve function and extend life of gas spring.

"E" COMPARTMENT TO CHECK PAST 90 DEGREES**Bidder Complies** YES____ NO____

The Gas spring door check on compartment "E" shall be set beyond the standard 90 degree, open default position to allow easier access into this compartment.

REAR ENTRANCE DOOR HOLDER, "GRABBER":**Bidder Complies** YES____ NO____

The rear entrance doors shall incorporate Cast Products, Grabber door holder device. This device shall hold the door at approximately 170 degrees. The door holders shall be securely bolted to the vehicle substructure of the body.

COMPARTMENTS**EXTERIOR COMPARTMENT CONSTRUCTION:****Bidder Complies** YES____ NO____

The exterior compartments shall be fabricated from fully enclosed aluminum sheets. The floor and ceiling material shall be fabricated from .125" aluminum sheets. Each compartment shall be its own independent unit with two sides, rear, top and bottom, and not share a common wall with an adjoining compartment. All vertical seams of the compartment shall be continuous one piece bend or 100% welded construction. Overlapping caulked vertical seams are unacceptable. Each compartment unit shall be welded to the inside of the structural door jam.

All compartments shall incorporate a flush sweep out design. No compartment floor lips or door gaskets shall come above or protrude into the compartment opening at all.

Or equal in structural integrity. Explain in detail.

STEPWELL COMPARTMENT:

Bidder Complies YES____ NO____

Inside the side entrance door shall be a recessed stepwell compartment. The compartment shall extend into the body approximately 12" and be the full width of the side entrance door. The vertical sides of the compartment shall be fabricated from .100 polished aluminum diamond plate. The floor shall include non-skid turtle tile, removable with a drain/sweep out plug for ease of cleaning. Aluminum diamond plate on the floor is unacceptable due to the slippery surface when wet. The sub-floor of the compartment shall be fabricated from 3/16" aluminum plate to provide a heavy duty walk surface which will not flex under foot. The upper edge where the stepwell meets the flooring material shall include non-slip polished aluminum threshold trim which is screwed in place.

EXTERIOR COMPARTMENT SHELVES:

Bidder Complies YES____ NO____

All shelves as specified in exterior compartments shall be fabricated from .125" formed aluminum diamond plate with a 1" flange bent up on both the front and rear of the shelf. The shelf shall be mounted to heavy duty UNISTRUT shelving standards to allow for full adjustment. The front edge of the shelf shall be finished with a Trim-Lock snap on vinyl edging.

EXTERIOR COMPARTMENT FINISH:

Bidder Complies YES____ NO____

The rear and two side walls of the interior surface of the exterior compartments shall be fabricated from 100% welded, .080" polished aluminum diamond plate panels.

COMPARTMENT DOOR PANELS:

Bidder Complies YES____ NO____

Interior door panels on compartment doors shall be made of .100" polished aluminum diamond plate held on with threaded fasteners that provide access for repairs or replacement of hardware.

**STAINLESS STEEL DOOR SILL
PROTECTION PLATES:**

Bidder Complies YES____ NO____

Heavy duty stainless steel protection plates shall be installed on the lower edge of all entrance and compartment door openings. The plates shall be a formed polished stainless steel angle with dimensions of 1/2" x 1", by full width of the door opening. The angle plates shall be permanently mounted without the use of screws and be removable for replacement if necessary. All edges shall be filed and deburred for a finished appearance.

COMPARTMENT VENTING:

Bidder Complies YES____ NO____

The exterior compartments shall be vented to the exterior of the vehicle. The vents shall be located in the lower portion of the compartments. Vents are installed to allow air to escape and allow the compartment door to close with ease. The vents are added to an area above floor level to prevent road debris from entering the compartment. The vents shall have a total of 25 square inches.

DRI-DEK FLOOR MATTING:

Bidder Complies YES____ NO____

Dri-Dek material shall be installed on all floors of the exterior compartments. The Dri-Dek shall be custom cut to fit around oxygen bottles and mounted equipment. The flush sweep-out floor edges shall include the Dri-Dek tapered edges.

RUBBER MATTING SHELVES:

Bidder Complies YES____ NO____

A .125" rubber mat material shall be installed on all shelves of the exterior compartments. The rubber matting material shall be custom cut to fit each compartment shelf.

SIDE ENTRANCE DOOR STEPWELL: Bidder Complies YES____ NO____

The floor of the stepwell compartment shall be lined with nonskid Turtle Tile mat. The mat shall be removable for ease of cleaning.

FIXED SHELF: Bidder Complies YES____ NO____

A fixed shelf shall be installed in exterior compartment "A" located as stated below. A 4" recessed light fixture shall be installed under the shelf. The compartment light shall be controlled by an automatic door post switch in the door. The compartment open indication light shall activate anytime any compartment door is opened. The door post switch shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights.

SECURING DEVICES FOR EQUIPMENT

BACKBOARD MOUNTS: Bidder Complies YES____ NO____

The right rear full height compartment shall be provided with (4) black rubber friction mounts for securing four (4) backboards. The mount shall be fabricated from an "L" shaped (45"h x 16"d) 2" aluminum channel. The channel will be bolted to the interior compartment. The rubber friction mount shall be press fitted onto each side of the 2" channel, full length. Proper spacing shall be provided to allow for Long Boards with runners.

MOUNTING HANGER FOR SCOOP STRETCHER: Bidder Complies YES____ NO____

The right rear full height compartment shall be provided with a rubber coated "Ferno EXL" Scoop hanger for hanging of a Ferno Washington #65 Scoop Stretcher or Ferno #65 EXL Scoop Stretcher.

ADDITIONAL BACKBOARD MOUNTS: Bidder Complies YES____ NO____

The full height compartment listed below shall be provided with additional black rubber friction mounts for securing backboards.

Qty: (2) Location:(1) Compartment "A", (1) Compartment "E Total: (4

FULL HEIGHT DIVIDER W/(3) ADJUSTABLE SHELVES: Bidder Complies YES____ NO____

The compartment as listed below shall be equipped with a full height divider, with one side for long equipment storage and three adjustable shelves on the other side of the divider. The divider shall be fabricated from a 0.125" aluminum panel with flanges on top and bottom and back edge for better attachment to the compartment. Dividers will be finished off with a "Powder Coat" paint process. The shelves shall be mounted on four sections of aluminum Unistrut, and be fully adjustable.

Long Equipment Storage Compartment "E"
Divider to be 12" off front wall w/10" shelves.

RIGHT REAR INTERIOR CABINET: Bidder Complies YES____ NO____

Inside access shall be provided to right side rear exterior compartment "E". A 1/2" hinged acrylic door with polished stainless steel Southco latch shall be provided.

Dimensions: 10" wide 40 1/2" high - 72" Headroom
With Hinged Acrylic Door

REAR STEP BUMPER: Bidder Complies YES____ NO____

A full length reinforced rear bumper shall be installed on the rear of vehicle. The bumper shall be fabricated from 3" aluminum 6061-T6 structural channel and securely bolted to the vehicle frame using high strength, grade 8, 1/2" bolts. The bumper shall have contoured ends and be covered with polished aluminum diamond plate end caps. In addition, two full end gussets shall be provided to support the bumper ends in the event of minor impact. The gussets shall be fabricated from 3" x 2" x 1/4" structural aluminum tube 6061-T6. No exceptions to size of gussets.

The bumper shall incorporate a design that allows it to be recessed under the rear of the body. Any rear bumper design that does not have a recessed design shall be unacceptable. The under body recessed bumper design allows the chassis frame to absorb minor impact without any damage to ambulance body.

**LIFT-UP REAR STEP;
RECESSED STEP RISER:** Bidder Complies YES _____ NO _____

The rear step bumper shall incorporate a 44" long by 9 1/2" deep, lift-up center section made of extruded aluminum, "Diamond Back" safety grating. The step shall hinge on a full length stainless steel piano hinge. Note: When the step is in the load position the step shall be totally within the exterior of the body and shall not protrude beyond the door sill.

REAR TOW HITCH: Bidder Complies YES _____ NO _____

A Class II rated trailer receiver hitch shall be installed and appropriate sized tow bar provided.

LICENSE PLATE HOLDER: Bidder Complies YES _____ NO _____

A recessed Cast Products polished aluminum license plate holder shall be installed in the left rear body panel of the ambulance. It shall include (2) recessed license plate lights activated with the running/headlights of the vehicle.

DOCK BUMPERS: Bidder Complies YES _____ NO _____

Two (2) Heavy duty black rubber dock bumpers shall be installed on the rear bumper ends, (1) each side. The bumpers shall be 2" high, 10" long and protrude 2" outward from rear bumper. The dock bumpers shall be bolted to the structural channel of the rear step bumper.

FRONT STONE GUARDS: Bidder Complies YES _____ NO _____

22" High polished .100 aluminum diamond plate stone guards shall be installed on the front body corners. The guards shall be one piece & contoured to fit the 1 5/8" outside radius of the body. They shall extend to the cab and follow the contour of the cab. The stone guards shall be removable for repair in event of damage. The edges of the diamond plate panels shall be sealed with a closed cell gasket around the perimeter, to prevent moisture from getting behind panels. All panels shall be fastened with stainless steel fasteners for ease of removal if required.

OFFSET DIAMOND PLATE RUB RAILS: Bidder Complies YES _____ NO _____

Heavy duty polished aluminum diamond plate rub rails shall be installed on the lower body skirt panels under the door line. The rub rails shall be fabricated from .19 thick (3/16"), aluminum bent in channel form. The ends shall be capped with a polished cast aluminum shape that will blend with channel. The rub rails shall be attached to the body with 1.5" x 1.25" diameter, polyurethane spacers that hold the channel and end caps off the body. This design prevents debris from accumulating between the Rub Rails and the painted body. Designs that are not offset from the body are unacceptable due to their tendency to accumulate debris.

DIAMOND PLATE COVERS, CAB STEPS: Bidder Complies YES _____ NO _____

The street and curb side steps shall be covered with a custom fitted, polish aluminum diamond plate cover. There shall be a Grip-Strut section recessed in the center of the step. The cover shall be bolted on and all seams and corners shall be 100% Heliarc welded for strength and a finished appearance.

REAR DIAMOND PLATE PANEL & CORNER GUARDS: Bidder Complies YES_____ NO_____

A polished aluminum diamond plate kick panel shall be installed above the rear step bumper and below the rear doors. The panel shall fit flush on all sides and not appear to be an add-on part. The step riser panel shall be removable.

Polished aluminum diamond plate panels shall be installed on the rear body corners. Panels shall extend to the rear step riser, and protect the lower area of the body around the rear recessed bumper step. The panel height shall be approximately 4" in height (dependent on vehicle type)

EXTERIOR TRIM

REAR WHEEL FENDERETTES: Bidder Complies YES_____ NO_____

Fenderettes shall be installed around the rear wheel opening sized to allow for proper tire clearance. The fenderettes shall be bolted on for easy removal. All hardware shall be concealed. Exposed mounting hardware is unacceptable.

FUEL FILL HOUSING: Bidder Complies YES_____ NO_____

A Cast Products Polished Aluminum fuel fill housing shall be installed in the street side body panel. The fuel fill shall be designed to match the O.E.M. mounting procedures and shall not cause any undue stress on any of the fuel components. The fuel fill housing shall be completely sealed from the inside of the vehicle.

EXHAUST VENT COWL: Bidder Complies YES_____ NO_____

A left side mounted, polished aluminum type exhaust vent cowl shall be installed on the vehicle. The cowl shall allow air from the power exhaust vent to exit the interior of the vehicle. The inside of the cowl vent shall have a rubber flap to prevent air from back feeding vent when not in use.

ADDITIONAL EXTERIOR EQUIPMENT:

UNDERCOAT

Undercoat: Bidder Complies YES_____ NO_____

The underside, modular body of the vehicle shall be undercoated using an automotive protective coating and sound deadener.

EXTERIOR BODY WINDOWS

SLIDING SIDE DOOR WINDOW: Bidder Complies YES_____ NO_____

An 18"W x 22"H window shall be installed in the side entrance door. It shall have sliding, 31% tinted automotive safety glass and be mounted within an aluminum black anodized frame. The window shall be completely sealed and held to the door via an inside clamp ring which matches the exterior of the window. The window shall incorporate a sliding removable screen.

FIXED REAR DOOR WINDOWS: Bidder Complies YES_____ NO_____

Two (2) 15"W x 22"H windows shall be installed in the rear entrance doors. They shall have fixed automotive 31% tinted safety glass and be mounted with an aluminum black anodized frame. The windows shall be completely sealed and held to the door via an inside clamp ring, which matches the exterior of the window.

INTERIOR MODULAR BODY

CABINET CONSTRUCTION:

Bidder Complies **YES**____ **NO**____

The interior cabinets of the vehicle shall be completely constructed of 3/4" and 1/2" premium grade, cabinet birch plywood. All cabinets shall be held together with glue, staples and threaded screw fasteners. Each cabinet shall include a reinforced attachment point where it is secured to the vehicle framework. All cabinets shall be attached directly to the vehicle framework and all mounting bolts shall be used, on a maximum of 16" centers for any cabinet.

All cabinets shall be covered with "Formica" type high pressure plastic laminate and trimmed with aluminum moldings for a finished appearance. Raw wood or unfinished edges of any kind including aluminum panels are unacceptable.

All outside edges of cabinets shall be finished with anodized aluminum three quarter round moldings. The molding shall have dimensions of approximately 3/4" x 3/4" and will be held in place with recessed screws.

WALLS:

Bidder Complies **YES**____ **NO**____

All walls of the vehicle shall be fabricated using 1/4" plywood covered with color coordinated high pressure plastic laminates. All walls shall be held on using threaded fasteners and finished with anodized aluminum moldings in all corners and edges.

Bidder Complies **YES**____ **NO**____

ADJUSTABLE SHELVES:

All adjustable shelves within the interior cabinets shall be mounted to unistrut shelving standards. Each cabinet shall be equipped with four adjustable standards for each cabinet and have (4) retaining clips for each shelf. The shelf will have 2 securing screws attached to retaining clips. The shelf shall be the full width and depth of the cabinet, have a 1" lip on the front edge.

HINGED DOORS:

Bidder Complies **YES**____ **NO**____

All hinged doors shall be equipped with hinges and a locking Soutcho positive latching device to prevent opening while in motion. All surfaces of the door including the edges shall be finished to match the interior of the vehicle cabinets.

WIRE RACEWAY:

Bidder Complies **YES**____ **NO**____

A full length drop down wire raceway shall be installed down the center of the ceiling. It shall be finished with padded vinyl material to match the upholstery in the vehicle. Vehicles which utilize wire raceways above or behind interior cabinets are unacceptable.

SOFFIT TRIM:

Bidder Complies **YES**____ **NO**____

A vinyl covered soffit trim piece shall be installed around the perimeter of the interior cabinets where they meet the ceiling. This trim shall be added to allow access to the cabinet mounting bolts and provide a finished transition between the ceiling and cabinet surfaces.

MODULAR BODY INSULATION:

Bidder Complies **YES**____ **NO**____

The entire inside surface of the modular body, including walls and ceiling, shall be insulated with a minimum of 2" thick "Thinsulate". Areas behind heat generating light fixtures shall not be insulated. The insulation shall completely fill the voids between the frame members and the exterior skin.

In addition to the modular body insulation the interior surfaces of the rear wheelwells and the exterior surface of the side entrance door stepwell shall be sound deadened with a composite acoustical sound deadening material. This material is specifically designed for the reduction of transmitted sound in single skin aluminum panels and shall not be substituted with other spray on products or undercoating type material.

MODULAR BODY ENTRANCE DOOR INSULATION: Bidder Complies YES _____ NO _____

All exterior entrance doors shall be sound deadened with a composite acoustical sound deadening material. The entire exterior skin surface of the interior door shall have this material bonded to it. The modular personnel entrance doors shall have an additional thermal insulation of 2" thick "Thinsulate" bonded in place, with clearance provided for door hardware.

MODULAR BODY COMPARTMENT DOOR INSULATION: Bidder Complies YES _____ NO _____

All exterior compartment doors shall be insulated and sound deadened with a slow rise foam in-place insulation and sound deadening material. The entire exterior skin surface of the interior of the door shall have this material bonded to it. The use of fiberglass or undercoating type material is unacceptable in an exterior door application.

FLOOR: Bidder Complies YES _____ NO _____

The floor shall consist of ¾" Expanded PVC Polymer material. This material shall have .016 lbs per cu in density and be impervious to fluid intrusion. An aluminum sub-floor shall be installed between the floor material and the floor frame members.

FRONT BULKHEAD WALL

CAB TO BODY ACCESS WINDOW: Bidder Complies YES _____ NO _____

The front wall of the modular body shall be designed in such a way to allow an access window to be placed in the front wall. The opening shall include a double sliding window for privacy.

With sliding 12"w x 14 3/4"h window.

Utilizes the 90 degree " Laminated" Electrical Cabinet

HEATER/AIR CONDITIONER CABINET: Bidder Complies YES _____ NO _____

The Heater/Air Conditioner cabinet shall be provided in the upper most area, centered above the cab to body pass-thru. This cabinet shall be designed in such a way to allow for quick easy removal of Heater/Air Conditioner unit without the removal of any other equipment. The interior of the cabinet shall be designed to allow fresh air intake from the front of the exterior body and exit to a closable vent located under the cabinet platform. The vent allows fresh air from the exterior of the vehicle to shut off in the summer months for maximum air conditioning performance. The lower platform shall also allow adequate return air flow to the Heater/Air Conditioner unit. The air return shall have a minimum air opening in the cabinet for two 6" by 10" filtered return grills.

FRONT BULKHEAD INTERIOR STORAGE CABINET Bidder Complies YES _____ NO _____

In the front bulkhead area shall be a cabinet with (2) 1/2" acrylic doors with a Southco latch. The cabinet shall be mounted to the floor with the height to just below the pass-through window. The cabinet shall include (1) adjustable shelf. There shall be sufficient space and a 110v outlet to accommodate a computer printer.

RIGHT FRONT INTERIOR STORAGE CABINET, UPPER: Bidder Complies YES____ NO____

In the upper most portion of the right front bulkhead area shall be a cabinet with hinged solid locking access doors. The doors shall be laminated to match the interior finish. Each door shall include a locking Southco

Polished Stainless Steel positive latch. The cabinet shall extend from the top of the inside outside portion of the right front to the ceiling of the vehicle.

Includes (1) adjustable shelf

RIGHT FRONT UPPER SPLIT WITH ADDITIONAL LOWER CABINET : Bidder Complies YES____ NO____

The right front upper inside access cabinet shall be divided at midpoint, and incorporate a lower cabinet with double hinged 1/2" tinted acrylic transparent doors. The doors shall have hinges that resist motion when moved to prevent doors from swinging freely when the vehicle is moving. The doors shall also incorporate (1) Southco Polished Stainless Steel positive type locking latch in each hinged door.

The cabinet shall extend from the top of the inside outside portion, to the midway to the ceiling.

RIGHT FRONT UPPER SPLIT CABINET , LOWER CABINET PULL-OUT TRAY: Bidder Complies YES____ NO____

One (1) Pullout aluminum tray shall be provided in the right front upper split cabinet, in the lower cabinet section. The tray shall slide on 300 lb. bottom mounted chassis slides. The slides shall be locking, to secure the tray when the vehicle is in motion. The tray shall be fabricated of .125" minimum brushed aluminum plate and incorporate a 2" flange on all sides. Tray shall be lined with black nonskid rubber matting. Tray to have locking slides.

RIGHT FRONT INTERIOR CABINET (Lower Section)

RIGHT FRONT LOWER, IN/OUT ACCESS STORAGE COMPARTMENT: Bidder Complies YES____ NO____

The interior right front storage cabinet of the vehicle shall be designed to provide access from both the inside of the vehicle or through the exterior compartment door. The size of the compartment shall align with the exterior height and width of the exterior compartment door area above the floor level of the vehicle. The width of the compartment from the inside shall extend to the pass thru area to the cab. Approximate dimensions 39 3/4" high by 31 7/8" wide by 19" deep.

RIGHT FRONT CABINET, ADJUSTABLE SHELVES: Bidder Complies YES____ NO____

The right front inside/outside compartment shall be equipped with two (2) adjustable shelves. The shelves shall be fully adjustable within the inside area of the cabinet.

Shelves to be lined with ribbed rubber mat.

RIGHT FRONT IN/OUT COMPARTMENT HINGED DOORS: Bidder Complies YES____ NO____

The right front inside/outside access cabinet shall incorporate double hinged 1/2" tinted acrylic transparent doors. The doors shall have hinges that resist motion when moved to prevent doors from swinging freely when the vehicle is moving. The doors shall also incorporate (1) Southco Polished Stainless Steel positive type locking latch in each hinged door.

PULL-OUT DRAWER RIGHT FRONT IN/OUT CABINET: Bidder Complies YES____ NO____

The right front inside/outside access cabinet shall incorporate a heavy duty interior access aluminum pullout drawer with interior adjustable dividers. The entire drawer and mounting system shall be fabricated from

.090" and .125" aluminum, including the door to the drawer. The drawer shall include two side mounted heavy duty chassis slides rated at 300 pounds. The drawer shall be laminated to match the interior cabinets and have a locking paddle handle. The paddle handle shall be a full size 4" by 5" locking Southco paddle, and be completely recessed within the face of the door. The back side of the handle shall not be exposed. From the exterior of the vehicle the drawer compartment shall be completely enclosed and have a finished appearance.

Includes gas spring hold open and adjustable acrylic dividers.

RIGHT SIDE SQUAD BENCH:

Bidder Complies YES _____ NO _____

A full length squad bench shall be provided on the right side wall. It shall have dimensions of approximately 74" long x 19" high x 20" deep. The squad bench shall be bolted to reinforced members of the framework utilizing 7/16" high strength bolts. The storage area of the squad bench shall be accessible by lifting the seat cushions.

The bench shall have upholstered padded 3" thick seat cushions. The seat cushions shall be approximately 18" wide x 72" long. The lower cushion shall be removable and easily cleaned or replaced if damaged. The cushions shall be held to the platform with #8 screw type mechanical fasteners, which is permanently attached to the under side of the cushion and platform surface of the squad bench. The cushion/lid shall be held open and closed by two (2) gas spring hold opens and hinged at the rear with full length piano hinges. The mounts for the gas spring shall be installed into reinforced areas within the seat lid platform.

RIGHT SIDE WALL:

Bidder Complies YES _____ NO _____

A Right side wall shall be installed as a finished backing to the right side cabinets. The wall covering shall match the laminate color of the cabinets.

SQUAD BENCH UNDER SEAT STORAGE AREA:

Bidder Complies YES _____ NO _____

The inside area of the squad bench shall be laminated with high pressure plastic laminates.

REMOVABLE PADDED ARMREST/BENCH SEAT STOP:

Bidder Complies YES _____ NO _____

A specially designed removable polished stainless steel squad bench armrest and seat stop shall be installed at the head of the squad bench. It shall be fabricated from 1" polished stainless steel welded tube and bolted onto the forward end of the squad bench. It shall also include a wrap around vinyl padded cover on the squad bench face and top surface as well as a vinyl storage pouch on the forward side. The color of the padded vinyl shall match the seat upholstery color.

RECESSED "D" BOTTLES AT HEAD OF BENCH:

Bidder Complies YES _____ NO _____

Recessed storage shall be provided for two (2) "D" bottles at head of the squad bench. To provide the recessed area, the stepwell shall be modified to extend under the squad bench by approximately 6". Access to bottles shall be from the step well.

See "D" bottle storage in section # 80-43-XXXX

BOTTLE BRACKETS:

Bidder Complies YES _____ NO _____

Ferno Washington Universal Oxygen Cylinder Brackets, Qty (2), Model #521 shall be provided and installed in recessed area at the head of the squad bench.

Located in recessed stepwell area head of squad bench.

SQUAD BENCH LID HOLD DOWN DEVICE:**Bidder Complies** YES____ NO____

The lid of the squad bench shall be equipped with a slam type positive closure device. This closure device shall prevent opening of squad bench lid in the event of an accident. The release shall be a stainless steel slam type Trimark paddle handle located on the outside surface of the squad bench, and incorporate a catch device on the under side of the lid.

COMBINATION TIP-OUT TRASH AND SHARPS BIN:**Bidder Complies** YES____ NO____

A Combination Tip-out trash bin and one quart, Sharps container shall be provided under the squad bench cabinet, forward of wheel well. It shall be custom built into the bench and provide a hinged tip-out door and flush Southco Polished Stainless Steel latch to access a removable Rubbermaid plastic trash pail and disposable sharps container which is mounted to the door.

Trash/Sharps bin shall tip into aisle, toward the center of the vehicle. The trash/sharps bin shall be designed to include an aluminum door laminated to match the interior cabinets. The trash/sharps bin shall be a totally self contained unit and be sealed on all sides to contain its contents during transit.

Sharps Container 1qt.

**OVERHEAD CABINET ABOVE SQUAD BENCH WITH
GLOVE BOX STORAGE:****Bidder Complies** YES____ NO____

An overhead storage cabinet shall be provided and installed in the area above the squad bench. The cabinet shall have two (2) shelves, one on each side of the center support / divider. The interior cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxy construction is unacceptable. The entire lower edge corner shall be padded to prevent sharp corners.

The area in the forward portion shall incorporate a glove box storage cabinet for vertical storage of three spring loaded glove box holders. The glove box holders shall tilt down for changing and have storage behind for three (3) additional spare boxes. The cabinet shall be approximately 18" long and have an acrylic drop down door with Southco latch. Access slots shall be cut into the acrylic to easily remove the needed gloves.

SINGLE OXYGEN OUTLET:**Bidder Complies** YES____ NO____

One (1) single oxygen outlet shall be provided on the right side of the ambulance above the forward squad bench. The outlet shall be built in flush and not protrude more than 1" beyond the wall.

LEFT SIDE WALL:**Bidder Complies** YES____ NO____

A left side wall shall be installed as a finished backing to the left side cabinets. The wall covering shall match the laminate color of the cabinets.

LEFT SIDE ATTENDANT SEAT:**Bidder Complies** YES____ NO____

A left side attendant seat shall be built into the left wall cabinets. It shall incorporate a 24" wide x 20" deep seat area with a cushion which is 21" above the floor, a backrest, and a separate headrest. In order to prevent injury during vehicle motion both the forward and rear cabinets that are immediately adjacent to the left side attendant, seat shall include full size padded head bumpers with a 1" thick padding.

All vertical surfaces to the front and rear of the seat cushion shall be fully padded and wrap around the top of the counter to provide a full armrest.

HINGED BACKREST:

Bidder Complies YES _____ NO _____

The backrest portion of the left side attendant seat shall be hinged with a full length piano hinge at the bottom and when dropped form a continuous counter area that is on the same plane as the counter forward and rear of the seat and have a 1" lip that matches the other counter surfaces. The backrest shall be held in the closed position by a positive slam latch with a single pull type release.

**LEFT SIDE ATTENDANT SEAT,
UNDER SEAT STORAGE:**

Bidder Complies YES _____ NO _____

The underside of the left side attendant seat shall be lined with a brushed aluminum pan and allow for full under seat storage. The seat cushion shall be hinged in the rear and be held open and closed by a single gas spring device. The seat cushion shall be equipped with a slam type positive stainless steel Trimark paddle latch.

LIFE SUPPORT STATION

LIFE SUPPORT STATION/SWITCH PANEL:

Bidder Complies YES _____ NO _____

The rear Life Support control and switch panel shall be mounted to the underside of the upper cabinet. The oxygen outlets shall be mounted in the panel to provide use of a ball type flow meter with humidifier bottle attached. The entire panel shall be hinged to provide full access of components for servicing. An adequate area shall be provided along side the switches for permanent built-in installation of two-way communications radio and a docking mount for a Panasonic "ToughBook" Laptop.

SWITCH PANEL COVERING:

Bidder Complies YES _____ NO _____

The switch panel shall be covered with padded vinyl covering which matches the upholstery in the vehicle. The padding shall be 1/8" thick and glued in place prior to the installation of the custom made stitched vinyl cover.

LIFE SUPPORT STATION STORAGE CABINET:

Bidder Complies YES _____ NO _____

A storage cabinet shall be provided at the head of the Life Support Switch Panel. The storage cabinet shall have a hinged 1/2" wood door with a laminate finish to match selected interior color, with a Southco Polished Stainless Steel positive latch and one (1) adjustable shelf within the cabinet.

Includes (1) adjustable shelf

**LIFE SUPPORT STATION UPPER STORAGE CABINET,
WITH SLIDING DOORS:**

Bidder Complies YES _____ NO _____

A storage cabinet shall be provided above the Life Support Control Panel. The rear most edge shall have a 45 degree angled panel to eliminate any obstructive corners in the area of the Life Support Station working area. The rear surface shall be covered with a padded head bumper surface. The storage cabinet shall be provided with a full framed cabinet sliding doors .(1) adjustable shelf within the cabinet is included. The entire lower edge shall be padded to prevent sharp edges.

The Interior Height of this cabinet will approximately be 13 -1/4" High

MEGANITE COUNTER TOP FRONT COUNTER AREA:

Bidder Complies YES _____ NO _____

The counter surface in the front Life Support Station shall be covered with a seamless solid counter top material, This solid counter top shall be permanently bonded and sized to cover the entire surface of the counter area. The counter top shall have a 1" built-in lip around the entire perimeter for containment purposes. ABS or other plastic counter surfaces are not acceptable.

LEFT REAR STORAGE CABINETS

LEFT REAR INTERIOR CABINET, UPPER WITH RESTOCKING LIFT-UP DOOR:

Bidder Complies **YES**____ **NO**____

A storage cabinet shall be provided in the upper left rear corner of the body, the forward most edge shall have a 45 degree angled panel. The storage cabinet shall be provided with a full framed sliding transparent cabinet door which is also capable of lifting for full restocking access to the cabinet. The door shall be held open with two gas springs and held closed with two positive slam latches. The frame shall be made of a custom designed aluminum extrusion and held together with (4) #10 mechanical fasteners in each corner; glued or epoxied construction is unacceptable. One (1) adjustable shelf shall be provided within the cabinet. The entire lower edge shall be padded to prevent sharp edges.

The forward most edge shall have a 45 degree angled panel to eliminate any obstructive corners in the rear area of the left side attendant seat. The 45 degree angle shall have an overlapping white acrylic door, which may act as a dry-erase, writing surface. The door shall open to a storage area within the 45 degree angled.

Sliding cabinet doors w/lift-up restocking - 45 deg hinged door to be a White Acrylic overlapping door to act as a dry-erase, writing surface.

Includes (1) adjustable shelf, installed in the restocking portion of the cabinet and (1) adjustable shelf, installed in the 45 degree portion

TIP-OUT SHARPS CONTAINER:

Bidder Complies **YES**____ **NO**____

A Tip-out Sharps Container shall be provided below the counter level rearward of the left side attendant seat. It shall be custom built into the cabinet and provide a hinged tip out door and Southco Polished Stainless Steel latch to access an 8 qt. disposable Sharps Container.

INTERIOR CABINET DOORS

TINTED TRANSPARENT DOORS:

Bidder Complies **YES**____ **NO**____

All transparent doors where specified in this specification shall have tinted Lexan sliding doors. All sliding doors shall be installed in double, anodized aluminum tracks with Standard Products rubber flocked inserts to prevent movement and inadvertent sliding. Hinged transparent doors when specified will be provided as 1/2" tinted acrylic.

FULL LENGTH HANDLES ON TRANSPARENT DOORS: **Bidder Complies** **YES**____ **NO**____

All sliding doors shall have anodized aluminum full length pull handles installed on the leading outside edge of the door. An anodized trim shall be installed on the edge of the following side of the door for a finished appearance.

POSITIVE CLOSURE DEVICES ON HINGED DOORS: **Bidder Complies** **YES**____ **NO**____

All hinged doors shall be equipped with a positive closure device such as a polished stainless steel Southco slam latch. Magnet or roller type catches are unacceptable hardware for this application. The use of positive latching types of hardware will prevent inadvertent opening when in motion.

CIPHER PUSH BUTTON LOCK W/KEY OVERRIDE: **Bidder Complies** **YES**____ **NO**____

The interior cabinet doors as specified shall include a Simplex mechanical push button combination lock with key override feature. The lock shall function without the need for keys and shall be capable of changing the combination at some future time. The lock assembly shall be installed within the door and not look like an add on part. This locking cabinet shall contain a locking Narcotics/Drug box. These is to meet RI DOH Division of EMS requirement for a secure Narcotics/Drug box with two separate locks.

Qty: (1) Loc: RF Upper

**UNISTRUT SHELVING STANDARDS, INTERIOR
CABINET SHELVES:**

Bidder Complies YES____ NO____

The interior cabinets of the vehicle shall be provided with Unistrut shelving standards. The standards shall be aluminum with the approximate dimensions of 3/8" by 1" wide. The Unistrut shall be securely fastened to the interior of the cabinets with #10 threaded fasteners.

INTERIOR ENTRANCE DOORS

Bidder Complies YES____ NO____

All entrance door panels shall be mounted with machine screw threaded fasteners which are installed with thread locking, Loc-Tite material.

SIDE ENTRANCE DOOR HEAD BUMPER:

Bidder Complies YES____ NO____

A cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior of the side entrance door area. It shall be designed to provide both onward and upward contact protection

REAR ENTRANCE DOOR HEAD BUMPER:

Bidder Complies YES____ NO____

A cushioned, matching vinyl covered "bump protection" head bumper shall be mounted in the interior above the Rear entrance doors. It shall be designed to provide both onward and upward contact protection

INTERIOR GRAB RAILS

GRAB RAIL RETENTION:

Bidder Complies YES____ NO____

All ceiling grab rails installed in the ambulance shall meet the requirements of the A.M.D grab rail retention test. Test documentation shall be provided upon request.

72" CEILING GRAB RAIL, OVER SQUAD BENCH:

Bidder Complies YES____ NO____

A polished stainless steel grab rail shall be installed in the ceiling over the squad bench. It shall be 72" long x 1 1/4" in diameter with welded stanchions every 24". It shall have fully rounded ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structure members of the ceiling framework.

FULL LENGTH CEILING GRAB RAIL OVER COT:

Bidder Complies YES____ NO____

A 96" full length polished stainless steel grab rail shall be installed in the ceiling over the cot. It shall be full length x 1 1/4" in diameter with welded stanchions every 24". It shall have fully rounded ends to eliminate a head injury hazard. The use of grab rails which do not have fully welded construction is unacceptable. The grab rail shall be bolted directly to the structure members of the ceiling frame work.

**18" STAINLESS STEEL GRAB HANDLES REAR
DOORS:**

Bidder Complies YES____ NO____

One (1) 18" Polished stainless steel grab handle shall be installed at each rear entrance door. Each shall be fabricated from 1 1/4" diameter tube and have rounded ends, which match the over-head grab rail.

SIDE ENTRANCE DOOR GRAB RAIL, 45 DEGREE:

Bidder Complies YES____ NO____

The side entrance door shall be equipped with a custom built 45 degree grab handle which extends from under the door window in the horizontal plane and then diagonally to the lower outside corner of the door. The grab rail shall be fabricated from polished stainless steel 1 1/4" diameter tube with fully welded construction. The grab handle shall be bolted directly to the structural members with the door with the use 1/4-20 threaded fasteners.

REAR ENTRANCE DOOR GRAB RAILS, 45 DEGREE: Bidder Complies YES____ NO____

The rear entrance doors shall be equipped with two custom built 45 degree grab handle which extends from under the door window in the horizontal plane and then diagonally to the lower outside corner of the door. The grab rails shall be fabricated from polished stainless steel 1 1/4" diameter tube with fully welded construction. The grab handles shall be bolted directly to the structural members with the door with the use 1/4-20 threaded fasteners.

SEAT BELTS

SEAT BELTS, SQUAD BENCH: Bidder Complies YES____ NO____

Three (3) sets of lap seat belts shall be installed for persons seated on the squad bench. All seat belts shall have enclosed automatic locking retractors with push button releases. All seat belts and seat belt mounts shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, REAR FACING ATTENDANT SEAT: Bidder Complies YES____ NO____

One (1) three point lap/shoulder seat belt shall be installed at the rear facing attendant seat. The seat belt shall have enclosed automatic locking retractors with push button releases. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SEAT BELT, LEFT SIDE ATTENDANT SEAT: Bidder Complies YES____ NO____

One (1) Seat belt shall be installed at the left side attendant seat. The seat belt shall have enclosed automatic locking retractors with push button releases. The seat belt and seat belt mount shall be tested to F.M.V.S.S. 210 and Federal Specifications KKK-A-1822. Documentation shall be available upon request.

SQUAD BENCH PATIENT RESTRAINTS: Bidder Complies YES____ NO____

Three (3) matching seat belts shall be installed on the face of the squad bench which can be used for securing a second patient. The belts shall be securely attached to the structure of the ambulance and be automatic adjusting.

COT MOUNTING

COT MOUNT, (175-3): Bidder Complies YES____ NO____

A Single position Ferno Washington Model #175-3 removable cot mount shall be installed in the center position. The mount shall be aligned to hold a Ferno Washington cot and the mounting to the vehicle shall be certified to meet AMD standard 004 litter retention test. Test documentation shall be provided upon request.

Mounting hardware installed to secure a Ferno Washington #35-P ProFlexx cot.

Includes floor mounted safety hook
Hardware Only - Cot not included

PERMANENT MOUNTED IV HOLDER

RECESSED DUAL IV HOLDER, OVER COT: Bidder Complies YES____ NO____

One (1) Cast Products Rubber "Recessed" dual IV holder shall be installed in the ceiling over cot. The holder shall be bolted to reinforcing plates located within the ceiling and include a velcro strap for securing IV during transport.

RECESSED DUAL IV HOLDER, OVER SQUAD BENCH: Bidder Complies YES____ NO____

One (1) Cast Products Rubber "Recessed" dual IV holder shall be installed in the ceiling over squad bench. The holder shall be bolted to reinforcing plates located within the ceiling and include a velcro strap for securing IV during transport.

RECESSED DUAL IV HOLDERS, (2): Bidder Complies YES____ NO____

Two (2) Cast Products Rubber "Recessed" dual IV holder shall be installed in the ceiling. The holders shall be bolted to reinforcing plates located within the ceiling and include a velcro strap for se-curing IV during transport. The dual IV holders shall be located as follows;

(1) Over squad bench, (1) Over cot.

INTERIOR SURFACE FINISHES AND COLORS

CEILING PANEL: Bidder Complies YES____ NO____

The ceiling panel of the ambulance shall be a reinforced fiberglass Kemplite (or equal) panel laminated to a 1/4" subpanel. The entire assembly shall be bolted directly to the ceiling structural framework. The panel shall be the fire retardant grade of Kemplite. All components (Including Lights, IV Holders and Grab Rails) mounted to the ceiling shall be mounted to the structural frame work of the ceiling. Under no circumstances shall anything be mounted to the ceiling panel only. The ceiling panel shall be attached to the vehicle framework without the use of visible hardware.

INTERIOR COLORS: Bidder Complies YES____ NO____

The interior color of the upper laminated cabinets shall be Fashion Grey.
The interior color of the lower laminated cabinets shall be Fashion Grey.

INTERIOR UPHOLSTERY AND PADDED SURFACES

HEAD BUMPERS: Bidder Complies YES____ NO____

Vinyl padded head bumpers shall be installed in areas where head injury can occur. One (1) located at the rear door, one (1) at the side door and one (1) at the cab to body door. Full padding shall be provided around the cabinets on the left side attendant seat area. All head bumpers shall incorporate a 1" thick minimum padding under Heavy Duty matching upholstery.

HEAVY DUTY UPHOLSTERY, SEAMLESS: Bidder Complies YES____ NO____

All upholstery used in the vehicle shall be a High Quality Automotive Grade Vinyl Upholstery. All upholstery shall be seamless flat upholstery utilizing minimal stitching on the outside corners. All material shall meet the requirements of FMVSS 302.

Upholstery Color: Brt. Blue

ATTENDANT SEAT W/BUILT-IN CHILD SAFETY SEAT: Bidder Complies YES____ NO____

The ambulance shall be provided with an EVS rear facing swivel attendant seat. The seat shall include an integral built in child safety seat which is accessed by dropping the rear seat backrest which exposes the child seat and restraints. The use of add on child seats is an unacceptable substitution for the integral design seat. Seat shall be mounted on swivel base. Seat shall have forward, back adjustment and swivel. All seats and seat installations shall be tested and certified to meet FMVSS standards. It shall be covered in Blue upholstery to match the balance of the vinyl in the ambulance.

INTERIOR FLOORING FINISH

CONGOLEUM FLOORING:

Bidder Complies YES _____ NO _____

A Commercial Quality Congoleum (or equal) no wax vinyl flooring shall be installed. The color shall be Brushed Pewter. It shall be applied over a prepared Polymer floor surface, with all seams filler patched, to eliminate holes or bubbles in the flooring surface.

ROLL-UP FLOORING 3":

Bidder Complies YES _____ NO _____

The flooring on both the left side wall and right side squad bench shall incorporate a three inch roll-up section of the vinyl flooring material. The flooring material shall be finished with an anodized aluminum trim.

The trim shall be secured in place with mechanical fasteners and have a tapered top surface to prevent accumulation of dirt and foreign material. The underside shall be designed in such a way to prevent infiltration behind the trim. This is required to eliminate the possibility of foreign liquid material from becoming trapped behind the flooring where it cannot be disinfected.

DRIVERS CAB CONSOLE

SPECIAL INSTRUCTIONS:

INTERIOR MOUNTED EQUIPMENT

STAINLESS STEEL WALL PROTECTOR, LEFT SIDE: **Bidder Complies** YES _____ NO _____

A full length by 9 1/4" high polished stainless steel wall protection panel shall be installed along the left side cabinet wall above the rolled up floor. The panel shall be held in place without the use of visible screws or fasteners and shall have all edges completely deburred prior to installation.

STAINLESS STEEL WALL PROTECTOR, RIGHT SIDE: **Bidder Complies** YES _____ NO _____

A full length by 7 1/2" high polished stainless steel wall protection panel shall be installed along the right side squad bench base above the rolled up floor. The panel shall be held in place without the use of visible screws or fasteners and shall have all edges completely deburred prior to installation.

"FASTEN SEAT BELT" AND "NO SMOKING" SIGNS: **Bidder Complies** YES _____ NO _____

Two (2) Large face "No Smoking" signs and one (1) Fasten Seat Belt sign shall be installed in the patient compartment of the ambulance.

ENTRANCE DOOR REFLECTORS: **Bidder Complies** YES _____ NO _____

Per the requirements of Federal Specifications KKK-A-1822 three (3) 3" diameter red reflectors shall be mounted to the inside outer corner of each entrance door. Two (2) rear doors, (1) side entrance door.

COMPARTMENT DOOR REFLECTORS: **Bidder Complies** YES _____ NO _____

The following compartment doors as specified below shall be provided with a 3" diameter red reflector mounted to the inside outer corner of the door.

Qty: (6) Location: Exterior compartment inner door panel

OXYGEN AND ASPIRATION SYSTEMS

OXYGEN SYSTEM:

Bidder Complies **YES**____ **NO**____

The Oxygen delivery system shall consist of a permanent mount DOT approved Medical Oxygen Cylinder, with a capacity of 125cu/ft made of aluminum. The oxygen line from the cylinder to the distribution outlets shall be oxygen cleaned, high pressure electrically conductive, "Green" hose with swaged fittings. All fittings and hardware used shall be Medical Oxygen Quality and cleaned for oxygen use.

All oxygen hose shall be encased in high temperature protective loom to avoid chafing and physical damage. Any and all fittings shall be completely accessible for service or inspection without the removal of any cabinets or wall panels.

The entire system shall be installed, inspected, tested and labeled per the requirements of Federal Specifications KKK-A-1822.

The oxygen storage cylinder shall be accessible through a transparent door for manual on/off control of the main valve and to visually monitor tank pressure on the regulator gauge.

DUAL OXYGEN OUTLET:

Bidder Complies **YES**____ **NO**____

One (1) dual oxygen outlet shall be flush mounted within the Life Support Station panel. The distance from the primary patient to the Life Support Station shall not exceed 35" per the requirements of KKK-A-1822.

CEILING MOUNTED OXYGEN OUTLET:

Bidder Complies **YES**____ **NO**____

An oxygen outlet shall be installed in the front ceiling raceway 88" off rear doors. The outlet shall be near flush in the Ducted climate control center wire raceway and not protrude more than 1/2" below the ceiling panel.

ELECTRIC SUCTION/ASPIRATION SYSTEM:

Bidder Complies **YES**____ **NO**____

The vehicle shall be equipped with a permanently installed Suction/Aspiration System. The system shall be equipped with a high volume Thomas electric suction pump certified for use in all states, with a 30 liter per minute flow rate. The pump shall be activated from a relay controlled circuit and switch, on the Life Support switch panel. The pump shall be mounted in an enclosed compartment using rubber isolators to minimize any noise and vibration when in use. The pump shall be connected to an onboard collection bottle permanently attached to the counter near the primary patient. The connecting hose shall be fiber reinforced medical hose and loomed to prevent chafing. The entire system shall be tested and meet the criteria of KKK-A-1822. Test Documentation shall be available upon request. As with the oxygen delivery system all fittings and lines shall be accessible for inspection and service without the removal of cabinets or walls.

SSCOR DISPOSABLE COLLECTION SYSTEM:

Bidder Complies **YES**____ **NO**____

On Board suction shall be provided with a SSCOR disposable system. System shall include SSCOR wall mounted white faced, regulator and disposable Bemis collection bottle mounted in stainless steel bracket mounted on wall per customer location.

VACUUM OUTLET:

Bidder Complies **YES**____ **NO**____

One (1) vacuum outlet w/ adapter shall be provided and flush mounted within the Life Support panel.

ELECTRICAL SYSTEMS

Crash Mount for Physio LP12:

Bidder Complies **YES**____ **NO**____

A crash rated mounting bracket for a Physio LP12, such as TMS Medical Technologies, shall be provided and installed in a location provided by Warwick Fire Department.

LIFETIME ELECTRICAL SYSTEM WARRANTY**Bidder Complies** YES____ NO____

Manufacturer will warranty to original purchaser that the supplied electrical equipment as listed below are sound and free of all defects of both materials and workmanship, for the life of the vehicle or 100,000 miles which ever occurs first. This electrical equipment includes body door post switches, all wire terminals and crimps, main vehicle wiring harness and battery harness cables, relays, switches, automatic/manual reset circuit breakers, voltmeter, ammeter, battery disconnect switches, solenoids, all terminal strips, manufacturer installed electrical connections and power distribution panel. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

The Electrical System shall be warranted for the life of the unit, as long as the original purchaser shall own it.

Electrical 12 VDC, POWER LOGIX, Titan Chevrolet, Phase III

CAB CONSOLE, CHEVY Titan:**Bidder Complies** YES____ NO____

An individually designed Cab Console shall be provided and mounted to the floor of the cab. The console shall be covered with a 1/8" padded black vinyl cover. All switches and controls shall be within easy reach of both the driver and passenger.

OXYGEN SHUT OFF SOLENOID:**Bidder Complies** YES____ NO____

An electric powered oxygen shut off solenoid shall be installed and mounted on the output of the oxygen bottle regulator. It shall be controlled by a switch located at the rear Life Support Panel. The solenoid shall be approved for medical oxygen use and be equipped with a manual override valve (in the event the electric solenoid may fail to open the valve). An electrical rectifier shall be installed in the circuit to prevent voltage spikes from entering the electrical system.

OXYGEN MONITOR:**Bidder Complies** YES____ NO____

The vehicle shall be equipped with an oxygen bottle contents monitor. The monitor shall consist of an analog pressure sensor device and calibrated to function with the controls of the rear switch panel. This pressure sensor shall be connected to the main oxygen supply tank and be connected at the high pressure inlet of the oxygen regulator. The system shall also include a system of visual and audible indication of contents. The rear switch panel shall have a green indicator light to indicate when bottle contents are above 500 PSI. It shall have an amber indicator light to show pressure between 200-500 psi, and include a once every five minute audible alarm pulse to remind attendants of pressure. It shall include a red indicator light and a steady audible alarm to indicate bottle contents below 200 PSI. The oxygen switch when pressed will silence the alarm. The alarm can also be silenced from the front console with the corresponding from alarm cancel switch is activated.

In addition to the red, amber, and green indicator lights, the oxygen pressure shall be displayed by two methods. One method would be to press and hold the Oxygen switch for three seconds and the bottle pressure will display in the rear switch panel digital display for 10 seconds. Secondly if the oxygen solenoid switch is activated the oxygen pressure display shall remain in the display area until the switch is turned off.

The front console shall display via dead front indicators corresponding oxygen content indicators, red, amber, green. In addition, the front LCD display shall indicate with a bar graph style contents monitor showing a similar color on the range of indication as the dead front display. In addition, the oxygen shall also be displayed on the LCD display in a full numeric digital display.

LARGE TANK OXYGEN REGULATOR:**Bidder Complies** YES____ NO____

One (1) Model #12-001540 (aka 1633-2), large tank oxygen bottle regulator shall be provided and installed. Connection to bottle will by a hand tight hand wheel nut for a 540 oxygen line.

ELECTRICAL 12 VOLT:**Bidder Complies YES_____ NO_____**

The entire 12 volt Electrical System shall comply with the recommended standards and practices per FMVSS, Federal Specifications KKK-A-1822 & SAE where applicable.

Electrical system provided by ambulance Manufacturer shall have Lifetime Electrical Warranty on power distribution system. The electronic switching control system shall have a 10 year warranty. The emergency vehicle has an expected life of 10 to 15 years. Warranties of less time period are not acceptable and may be cause of rejection of bid proposal.

The entire 12 volt DC Electrical System shall incorporate SXL or GXL Thermoplastic High Temperature Copper wire. Each wire shall be color coded with function imprinted every four inches for immediate identification. All exposed wiring shall be covered with Packard Flec or equal, black with gray stripe, convoluted loom with minimum of 300 degree F. Temperature rating. Loom with a lower temperature rating is cause for rejection. Large Heyco type or rubber insulators shall be used where wires pass through sheet metal or structural members. All circuits shall be protected with circuit breakers suitable to the circuit demand. Any wire carrying an electrical load to an appliance in the 12 volt Electrical System shall be 16 gauge wire minimum.

Electrical System shall consist of six main wiring harnesses which terminate at the Electrical Distribution Panel. Distribution Panel shall be centrally located with connections resulting through 45 pin Packard Electric Connectors. Harnesses shall include one (1) Main Body, one (1) for flashing lights and optional equipment, one (1) for Life Support Station, one (1) for cab switch console, one (1) for chassis and one (1) for Power Distribution Interface (PDI). (6) Main harnesses total.

All Electrical components shall be mounted using a "plug in" type assembly which affords speedy replacement of failed components. The entire unit shall be housed in a readily accessible maintenance cabinet built into front wall of the personnel compartment. Attached to inside of door shall be complete documentation of 12 volt Electrical System. The use of exterior compartment mounted electrical distribution panel is unacceptable.

The main power distribution panel shall consist of a plug-in modular system which includes locations for 46 plug-in circuit breakers and 60 plug-in relays, as standard equipment. This type of system is utilized to have standard circuit configuration while remaining totally flexible for custom circuits when required. All circuits shall consist of plug-in relays and plug-in circuit breakers only. The use of diodes, rectifiers, heat sinks, or other than automotive type relays is unacceptable.

CIRCUIT BREAKERS:**Bidder Complies YES_____ NO_____**

All circuit breakers 30 amp or less, shall be plug in Manual or Automatic Reset type. All circuits which require greater capacity shall utilize a Cooper Electric/Bussmann or equal 40 or 50 amp "MAXI-AMP" manual or automatic reset circuit breaker.

RELAYS:**Bidder Complies YES_____ NO_____**

Devices being switched with loads in excess of one (1) amp (12 watt) shall be accomplished through Potter & Brumfield or equal, 40 amp SPDT 12 volt automotive relay switching devices. All relays used in the panel shall be of the same type to insure complete compatibility and ease of replacement. Relays shall be controlled through a signal from the system PDI. All relays shall be plugged into the modular panel assembly including the 70 amp power relays where required. All relay circuits utilizing the SPDT relays and SPST 70 amp relay shall include internal suppression to eliminate voltage spikes in the electrical system.

GROUNDING:**Bidder Complies YES_____ NO_____**

All Modular Bodies shall be grounded to the vehicle chassis via two (2) 000 GA braided tinned copper grounding straps. An additional 000 GA braided ground strap is added from vehicle engine to chassis frame. Stranded copper conductors to be used. i.e. Battery cables shall not be used.

Each appliance (i.e. Lights, fans) shall be grounded to the body structure in close proximity to its location or by a ground harness as required. The ground shall be equivalent to its feed wire size and be minimized in

length. Each ground attached directly to the vehicle structure shall use machine screws with star washers or ring terminals with serrated ring to insure a positive contact at all times.

All Body harnesses shall be contained within the body. Harnesses shall not run on the under side exterior of the body. Under hood harness shall be protected within high temperature convoluted loom. All connections exposed to the elements or under hood shall be made within "waterproof" heat shrink connections. This type of connection shall also be used on all heavy duty battery cables. All battery cables, both positive and ground shall be machine crimped and fully soldered prior to addition of waterproof heat shrink tubing. Any exposed connections not in heat shrink and battery connections not soldered shall be rejected.

All Electrical Systems shall include three (3) spare relays and three (3) spare circuit breakers mounted within the Electrical Distribution Panel.

12V - 110 VOLT CIRCUIT SCHEMATIC DOCUMENTATION:

Bidder Complies YES____ NO____

All harnesses, relays, circuit breaker terminal junction points and circuits shall be drawn on individual 8 1/2 x 11 size drawings. Each individual circuit shall be on (1) drawing, for ease of troubleshooting. All electrical systems shall be designed for each vehicle. All schematics shall include only what circuits are provided in the proposed vehicle.

ELECTRICAL ANALYSIS:

Bidder Complies YES____ NO____

Proper balance of the electrical system output and vehicle draw is critical in the design of all emergency vehicles. Vehicle proposed shall be provided with a detailed electrical analysis generated by the manufacturer of the ambulance and specific to this proposed vehicle and specific electrical equipment requested.

DOOR POST SWITCHES ENTRANCE AND COMPARTMENT DOORS:

Bidder Complies YES____ NO____

Sealed door post switches shall be installed in all entrance and compartment doors. All switches shall be sealed from the elements to prevent moisture damage and to prolong service life. The switches shall be warranted for lifetime of vehicle. All door post switches shall activate the PDI input control.

MASTER SWITCH:

Bidder Complies YES____ NO____

A Solid state power disconnect, shall be installed per the requirements of KKK-A-1822 to control power to all ambulance vehicle conversion and modular body functions. The solid state disconnect shall be activated by a heavy duty Cole-Hersee 175 amp lever type switch mounted on the side of the console or seat base, (dependent on vehicle type). Per the requirements of QVM guidelines the chassis and cab power shall not be disconnected from the batteries with the use of this switch.
Switch mounted on either seat base or side of console

ELECTRICAL DISTRIBUTION SWITCHING SYSTEM:

OVERVIEW:

Bidder Complies YES____ NO____

The Electrical Distribution Switching System shall contain the following material: a Front Switch Panel (FSP), a Rear Switch Panel (RSP), and when specified an (optional) Remote Rear Switch Panel 8 Position (RRSP), Two (4) Position Switch Panels, a Power Distribution Interface (PDI) and Communication Cables.

The Electrical Distribution System shall control electrical loads of an emergency vehicle apparatus. It shall control these loads by energizing or de-energizing a relay coil, as a response to an input condition or event occurring in the vehicle.

The Electrical Distribution System shall have bi-directional communication between the FSP, RSP, and RRSP and the PDI. The communication shall occur via 5 conductor CAN 2B communication cables.

The Electrical Distribution Switching System shall be designed and produced to survive the long-term requirements of interior mounted electronic components in an emergency vehicle environment. This shall include extreme temperature, shock, vibration, dust, humidity, electrical noise, electrical transients, and load dumping.

The Electrical Distribution System will be designed in such a way to maximize modularity for ease of assembly as well as serviceability.

SWITCH PANEL CONSTRUCTION: Bidder Complies YES_____ NO_____

The Switch panels shall be constructed of the following components: Graphic Layer, Aluminum Panel, Switches, Communication Module and Display(s).

Graphic: The Graphic shall be a .020" clear polycarbonate with domed finish. It is silk-screened sub-surface in 6 colors; black, dead front, logo red, blue, gold and white. It shall have a clear window over the Display(s). All control text shall be viewable in all lighting conditions.

Aluminum Panel: The strength of the panel shall be 0.090" black anodized panel. The panel shall provide the structure for other components to mount. The panel itself shall mount to the console by (7) #6-32x3/4 threaded studs.

FRONT SWITCH PANEL (FSP): Bidder Complies YES_____ NO_____

Communication Module: The Communication Module is contained on a PCB attached to the FSP.

Switches: The Switches shall be sealed lighted push buttons with single and dual indicators. The backlight color of the switches shall be determined and grouped by function. Red LED's will designate Emergency functions; Amber LED's shall designate Secondary functions; Blue LED's shall designate Lighting functions, and Green LED's shall designate miscellaneous functions.

All switches where appropriate shall have one or two high bright LED indicators normally used to indicate function is on. The light from the white LED shall shine through an adhesive backed label. The labels shall determine the indicator color of the switches. The indicator shall be high brightness when "on" and a dead front finish when "off". The switches shall be mounted on a printed circuit board.

The FSP shall have 21 switches (6 with dual indicators) on the FSP.

LCD FRONT DISPLAY: Bidder Complies YES_____ NO_____

The front console shall be equipped with a 4.0" TFT color LCD display. The display shall have a minimum brightness of 300 NITS for a transmission type and 220 NITS for a transfective type. The display shall be viewable in most light conditions and be fully dimmable if needed.

The display shall include the following information in a "Graphical User Interface" format.

- 1) A bar graph style voltmeter with red-amber-green-amber-red bar graph elements showing a range of 9 volts to 19 volts. In addition a numeric digit will be displayed with one decimal place accuracy.
- 2) A bar graph style oxygen monitor with red-amber-green bar graph elements showing a range of 0 to 3000 psi. In addition a numeric digit will be displayed.
- 3) An hour meter with 5 digits shall be provided. The hour meter shall be factory manipulatable in cases of change over or component replacement.
- 4) Inside temperature and outside temperature shall be displayed. The units can be user selectable from Fahrenheit to Celsius.
- 5) A rear step "up" alarm shall be provided. The rear step warning indicator shall include both a graphical display on the LCD and a red-green dead front display on the front switch panel.

- 6) A parking brake alarm shall be provided using a graphical interface and icon images. One display will show "Remove" park brake and the other to "Apply" park brake.
- 7) A full graphical display shall indicate each open door. The display shall include an overhead representation of the vehicle and show each door that is open with an alphanumeric designation of the door open in addition to the graphical display.
- 8) The LCD shall display rear climate control fan speed and can be changed utilizing user interface (see below).
- 9) The front LCD display has a full function user interface controlled by the switches labeled "MODE" on the front switch panel. The following function shall be user settable: a) Rear climate control fan speed. b) Rear climate control set temperature. c) Front switch panel backlighting intensity. d) Temperature measuring scale.
- 10) The system shall include a screen saver that blanks the screen after 10 minutes. Any button selection will reactivate display.

Indicators: The FSP shall contain 12 hidden (dead-front) LED indicators. These indicators shall be visible only when in the "ON" condition. The indicators group shall contain the following; a green battery on indicator, which will function when both the master battery switch is active and the cab ignition is active. A red, shoreline indicator, door open, and compartment open indicator shall be provided. A red low voltage indicator shall be provided and illuminate any time the system is in a load shedding mode. A dual function parking brake alarm shall be provided and illuminate when the vehicle is in park without the parking brake applied, or in drive with the parking brake applied. Red, amber, green Oxygen pressure indicator lights shall be provided; red shall indicate below 200 psi, amber from 200-500 psi and above 500 psi shall indicate green.

Alarm: The FSP shall have an audible alarm. The alarm shall sound when an alarm condition exists, with the exception of the shoreline, door open, compartment open, and rear step up alarm. The alarm shall only sound when the vehicle is shifted into drive or reverse.

The FSP shall provide for an alarm cutout. The switch shall silence the current condition that has activated the audible alarm. The very next alarm condition shall reactive the audible alarm to warn the drive and/or attendant of a new alarm condition.

The FSP shall be sealed from splash of liquids on the switch side.

REAR SWITCH PANEL (RSP): **Bidder Complies** YES _____ NO _____

Switches: The Switches shall be sealed lighted push buttons with single and dual indicators. The backlight color of the switches shall be determined and grouped by function. The labels shall determine the indicator color of the switches. The indicator shall be high brightness when "on" and a dead front finish when "off". The switches shall be mounted on a printed circuit board.

The RSP shall have 14 switches (2 with dual indicators) for load control and 3 switches for climate control.

Display: The RSP shall include a 4 digit backlit LCD display (.5" high). The display shall be viewable in all lighting conditions.

Climate Control: The RSP shall provide an UP arrow, DOWN arrow, and a FAN SPEED switch for the Climate Control module. The Climate Control shall provide for manual and automatic fan speed control.

Indicators: The RSP contains 6 hidden (dead-front) LED indicators. These indicators will be visible only when in the "ON" condition. Three for oxygen system monitoring, and three for patient condition indicators.

An indicator on the RSP shall show the current Climate Control fan setting of 1, 2, 3, and AUTO. The RSP shall provide an indication that the Climate Control is off.

The RSP shall provide for an analog input for the Oxygen sensor. The sensor shall be located within 15 feet of the RSP. Oxygen sensor readings shall be within +/- 30 PSI.

Alarm: The RSP shall have an alarm. The alarm shall sound when certain preprogrammed conditions are met as well as chirp when buttons are pushed.

The RSP shall provide for an alarm cutout to silence the alarm if required.

The RSP shall be sealed from splash of liquids on the switch side.

REMOTE 4-GANG SWITCH PANELS, QTY 2: Bidder Complies YES_____ NO_____

The RSP shall have provision for 2 Remote 4-Position Switch Panels. The 2-Position Remote Switch Panels shall connect to the rear of the RSP. Connection shall be two 8-pin connectors, one for each 2-Position Remote Switch Panel.

One 4-gang remote panel shall be located at the side entrance door and one shall be located at the rear entrance door. Both locations shall control the vehicle cab and door lock and unlock feature. The side door shall provide a redundant function of both the right flood switch and fluorescent light switches. The rear 4-gang shall provide a redundant function of the rear load lights and fluorescent light. If rear air ride dump is optional equipment, the switch shall be re-programmed to "Air Ride".

POWER DISTRIBUTION INTERFACE (PDI): Bidder Complies YES_____ NO_____

The Power Distribution Interface (PDI) shall consist of a central signal-processing unit. This device shall communicate with the FSP, RSP and RRSP via CAN2B buss. It shall also collect and process condition inputs and outputs generated around the vehicle. The information shall be processed and the result shall be used to manage and control the vehicle power distribution pan

All input, output and communication conductors shall plug into the Power Distribution Interface via a connector. Connector design should be a readily available discrete wire crimp and insertion type. Connectors shall be organized by function. Different functions shall be incompatible.

The PDI shall have eight (8) diagnostic LED's. The LED's shall indicate PDI and system status.

The PDI shall accept both 12Vdc and Ground as input signals.

The PDI shall have 48 12Vdc -1 Amp outputs, eight (8) 1 Amp ground outputs, twelve (12) 12 volt inputs, and twelve (12) ground inputs.

The PDI shall provide for an analog input for temperature sensor. The temperature sensor shall be located within 36" of the PDI. Temperature sensor readings shall be within +/- 5 °F.

The PDI shall have a battery disconnect feature and rating of 200 Amps continuous duty with 500 amp inrush rating. The battery disconnect shall be controlled by a remote switch on - off switch.

The PDI shall provide for control of the following +12 V power buss outputs.

The PDI shall provide an externally accessible Load Manager Override switch.

The communication cables shall be constructed such that they are compliant to CAN 2B communications (SAE J1939) or equal.

SWITCHES: Bidder Complies YES_____ NO_____

All switches shall be push button momentary type switch. The switch shall provide a tactile feel when activated. Membrane type switches without an actual switch feel and look are not acceptable, due to the lack of positive feel and engagement. Each switch shall provide the driver with positive visual and audible feedback. Each switch shall include a high intensity LED to indicate actuation. Each switch and switch function shall be fully customizable to meet the needs of the purchaser.

All switches shall have color coded LED backlighting and be grouped by like functions on both the front and rear ambulance switch panels.

The switches shall be programmable to meet the needs of each purchaser. Momentary or latching switches and single or dual indicators shall be provided as required.

Each switch shall include a legend describing the function of each switch.

BATTERY "ON" INDICATOR: Bidder Complies YES____ NO____

A Master battery "On" indicator shall be installed on the driver's console of vehicle. The indicator shall be part of the dead-front display and illuminate when both the driver's battery switch is engaged and when the ignition switch is in the run or accessory position. This dual input response is required for successful operation of the vehicle.

Systems that do not include this feature will be considered unacceptable.

DOOR OPEN INDICATOR LIGHT: Bidder Complies YES____ NO____

A red indicator light shall be installed in the drivers switch console to indicate that an entrance door is ajar. The light will activate whenever the master battery disconnect switch is activated and an entrance door is opened. The indicator shall be a dead-front display.

COMPARTMENT OPEN INDICATOR LIGHT: Bidder Complies YES____ NO____

A Red Text indicator light shall be included in the drivers switch console to indicate that a compartment door is ajar. The light will activate whenever the master battery disconnect switch is activated and a compartment door is opened. The indicator shall be a dead-front display.

SHORELINE INDICATOR LIGHT: Bidder Complies YES____ NO____

A red indicator light shall be installed in the drivers switch console to indicate that the vehicle shoreline is plugged into the vehicle. The indicator shall be a dead-front type indicator. In addition to the indicator an audible alarm will also sound when the vehicle is placed in gear if the shoreline is not removed.

MULTI-FUNCTION AUDIBLE ALARM: Bidder Complies YES____ NO____

A high decibel, electronic beeper alarm shall be installed and activate, when a module entrance door, compartment door is opened, or shoreline is plugged in. The alarm shall sound only when the vehicle is placed in drive or reverse and be independent of the door open, compartment open, or shoreline warning lights in the console.

PARKING BRAKE ALARM AND INDICATOR: Bidder Complies YES____ NO____

The vehicle shall be equipped with a Dual-Mode alarm that will sound when the vehicles shift lever is in Neutral and the Parking Brake is not applied. Secondly the alarm will sound when the vehicle gear selector is in reverse or a forward drive gear and the Parking Brake is applied. The alarm shall include a dead-front indicator light in the drivers console and an audible alarm that will sound when the condition exists when the vehicle is in the run mode and when the emergency sequencer switch is on.

The audible portion of the alarm shall, have a 3-second delay to allow the driver to properly activate or deactivate the parking brake before the alarm will sound

REAR STEP UP INDICATOR: Bidder Complies YES____ NO____

The vehicle shall be equipped with a rear step "UP" indicator on the front switch panel. The dead front display shall show green when the step is down and show red when the step is up.

BACK-UP ALARM:**Bidder Complies** YES____ NO____

An audible backup alarm shall be installed under the rear step area of the vehicle. The backup alarm shall be activated any time the vehicle is shifted into reverse gear.

Bidder Complies YES____ NO____**LOAD MANAGER:**

A Load Manager shall be installed in the vehicle. The Load Manager shall automatically shed load to maintain balance between alternator output and draw, by turning predetermined functions to the off position. The Load Manager shall include an override emergency bypass switch in the main electrical panel. This switch shall be integrated into the power distribution interface controller.

The load manager shall activate an additional dead-front indicator on the front console showing "Low-Voltage" This indicator will activate anytime the load manager has shed loads.

RESPONSE AND SCENE AMPS CANNOT EXCEED 230 AMP

FULL TIME Load Management of Emergency Lights

SEQUENCER, TWO-RESPONSE AND SCENE:**Bidder Complies** YES____ NO____

A "Dual" Sequencer, Response and Scene modes with automatic engagement from response to scene and back again shall be provided. With the vehicle in a drive gear and user selected "Response Switch" the system shall automatically change the emergency functions to "Scene" mode when vehicle is placed in Park and the Parking brake is applied.

RESPONSE AND SCENE AMPS CANNOT EXCEED 230 AMP

FULL TIME Load Management of Emergency Lights

SILENT SIGNAL SYSTEM:**Bidder Complies** YES____ NO____

An audible/visual intercom, (Silent Signal System) shall be installed in both the front and rear switch panels. The rear panel shall include a single switch when depressed will activate a Red, Green, or Amber indicator lights mounted in both the front and rear switch panel. In addition to the switch a momentary button shall be provided to activate an audible alarm to signal the attention of the driver via an audible indication.

When the audible alarm switch is pressed, all three lights will light simultaneously to provide additional indication to the driver.

POWER DOOR LOCKS SWITCHES, SIDE AND REAR DOORS, AMBULANCE BODY:**Bidder Complies** YES____ NO____

Two pair of control switches shall be mounted in the ambulance modular body to control the vehicle power door locks. One shall be located at the side door, and one shall be located at the rear entrance door.

RIGHT SIDE FLOOD LIGHT DUAL CONTROL SWITCH: **Bidder Complies** YES____ NO____

A right side flood light dual control switch shall be installed directly inside the side entrance door. The switch shall be mounted within the interior wall or cabinet. The switch shall be a momentary switch. The circuit shall automatically turn off the right side flood lights and the step-well light with a single touch of the switch. A second touch of the switch will turn the lights back on. The switch shall operate as a three way switch in conjunction with the drivers console mounted switch. The use of a manual canceling door post switch is an unacceptable substitution. The switch shall match the switches used in the front and rear switch panel.

REAR FLOOD LIGHT CANCEL SWITCH:**Bidder Complies** YES____ NO____

A flood light dual control switch shall be installed directly inside the rear entrance door. The switch shall be mounted within the cabinet adjacent to the door. The switch shall be a momentary switch. The circuit shall automatically turn off the flood lights with a single touch of the switch. A second touch of the switch will turn the lights back on. The switch shall operate as a dual control switch with the rear flood light switch on the driver's console. The use of a manual canceling door post switch is an unacceptable substitution. The switches used shall match the switches used in the front and rear switch panel.

REAR SIDE FLOOD LIGHTS:**Bidder Complies** YES____ NO____

The left and right, rear side, flood lights shall activate when the vehicle is placed in reverse. The lights shall illuminate to provide better side illumination when backing up the vehicle during periods of darkness. The circuit shall be relay controlled, without the use of voltage reducing diodes or rectifiers. All flood and reverse circuits shall function independently when the vehicle is not in reverse.

HEATER/AIR CONDITIONER MASTER CONTROL SWITCH:**Bidder Complies** YES____ NO____

A Master "On-Off" switch shall be installed in the front drivers console to control the power to the heat and air conditioner units. The switch shall override the position of the rear controls to turn the unit off when it may not be needed. The system can be reset back to the "on" position by pressing the switch a second time or by pressing a fan speed switch in the rear area of the vehicle.

FLUORESCENT LIGHT; POWER LOGIX, PHASEV III, "CHECK OUT" TIMER:**Bidder Complies** YES____ NO____

A 60 minute electronic timer shall be provided to allow the fluorescent lights to be turned to the on position when the vehicle exterior power source is connected. The timer shall only function when the shoreline is plugged in and will not function when the battery switch is activated. The switch shall match the balance of the switches in the front and rear switch panel. The backlighting of the switch shall flash designating fluorescent lights are operating in a 60 minute time mode.

In addition the other fluorescent light switches shall operate the timer also when the shoreline is active, similar to the switch at the side door.

Momentary activation switch provided at both the side and rear entrance doors.

DOMESTIC LIGHT MASTER CONTROL SWITCH:**Bidder Complies** YES____ NO____

The front switch panel shall be equipped with a master dome light switch. When the vehicle is started the dome lights in the rear of the ambulance shall be in the low mode and the switch shall be in the on position. By pressing the switch all active dome lights in the rear of the ambulance shall be shut down. An additional activation will return the lights to the previous "on" mode.

The lights can also be reset by opening any entrance door or by pressing any dome lighting switch in the rear of the ambulance in any of the dome lighting locations.

Includes all ceiling mounted lights

DOMESTIC LIGHT OFF TIME DELAY, "CHECK OUT":**Bidder Complies** YES____ NO____

An automatic time delay function shall be incorporated into the dome light circuit when the battery master switch is turned off. The timer shall hold the switch position mode of the dome lights in the on position for a period of 60 seconds. This will allow the attendant the time needed to remove the patient or equipment from the vehicle with the lights on, without having to leave the batteries in the on position. The system shall be fully automatic and not require special user instruction.

DOMESTIC LIGHT 5 MINUTE TIMER:**Bidder Complies** YES____ NO____

A timer shall activate the low mode of the dome lights for 10 minutes when any entrance door is opened. The timer is wired direct to the vehicle battery and will function only when the ambulance battery switch is in the "off" position.

REAR STEREO SPEAKERS:**Bidder Complies** YES____ NO____

Two (2) low profile, flush mounted, AM-FM Stereo Radio Speakers shall be installed in the ceiling in the forward portion of the vehicle. The speakers shall be spaced with other equipment provided, (1) each side. The speakers shall be connected to the stereo radio within the cab dashboard. An "On-Off" switch shall be provided in the rear switch panel to allow speakers to operate independent of front speakers.

AIR RIDE LOWERING SWITCH:**Bidder Complies** YES____ NO____

If the vehicle is Air-Ride equipped, the air suspension system shall be capable of lowering the height of the rear floor by the use of an electric dump solenoid. The solenoid shall be activated when the left rear door is opened. An on/off override switch shall be located just inside the left rear door to control the function of the air ride dump with the door. The air suspension shall rise to the ride position when the door is closed regardless of the switch position.

If the electrical system is digital switching the switch will be one touch on/off.

ELECTRICAL DISTRIBUTION PANEL:**Bidder Complies** YES____ NO____

A concealed, accessible Electrical Distribution Panel shall be installed in the vehicle as described within the Electrical Specifications

CAB AND CHASSIS ELECTRICAL MODIFICATIONS**ALTERNATOR:****Bidder Complies** YES____ NO____

The alternator system shall be installed by General Motors in the approved Ambulance Prep Chassis. The alternator shall be a Dual 150 amp system with total capacity of 300 amps. The charging system shall not be modified in any way to void its warranty.

BATTERIES, CAB STEP:**Bidder Complies** YES____ NO____

Heavy duty OEM supplied truck batteries, (as declared in the chassis specification); Will be located in the cab step area.

FRONT AND REAR SWITCH PANEL EQUIPMENT AND SYSTEMS**HELLA GOOSENECK LIGHT:****Bidder Complies** YES____ NO____

A "Hella" gooseneck light with 7" flexible shaft shall be permanently installed in the driver's console. The light shall have a swivel head and an on/off switch located at the light. A separate removable red filter lens shall be provided.

ELECTRONIC THROTTLE CHEVY/GMC 4500:**Bidder Complies** YES____ NO____

The OEM Chassis shall be equipped with an electronic throttle device which is specifically designed for use with this emergency vehicle. The throttle shall activate under the following conditions: Parking brake set, engine running, and vehicle in park. The throttle shall not activate whenever vehicle is in a transmission drive position or when the vehicle service brake is applied, or accelerator pedal is depressed.

UNITY SPOTLIGHT:**Bidder Complies** YES____ NO____

A hard wired Unity Handheld Spotlight shall be provided. The light shall have a 5" 100,000 CP bulb with a momentary "ON" switch located on the handle. A custom designed aluminum bracket shall be fabricated to hold the light when not in use. The bracket shall be plastic dipped to protect the bulb surface and light from vibration. Lights installed with hooks or no holders are unacceptable.

ENTRANCE DOOR POWER DOOR LOCK SWITCHES:**Bidder Complies** YES____ NO____

The power door lock mechanisms (if so equipped) shall be controlled by the OEM door switches

POWER DOOR LOCKS PARK-NEUTRAL/DRIVE CONTROL:**Bidder Complies** YES____ NO____

If equipped with power locks, the vehicle door locks shall automatically lock when the vehicle is placed in a drive gear and will automatically unlock when the vehicle is placed in the Park or Neutral position. This automated lock and unlock feature shall include the Body entrance doors only and does not include the Cab entrance doors. This control setting is selectable and can be defeated if required.

EMERGENCY WARNING SYSTEMS**SURFACE MOUNTED TRAFFIC EMITTER SYSTEM:****Bidder Complies** YES____ NO____

A recessed mounted GTT Traffic Emitter System #792 shall be installed in the location as specified below;

Location: Surface Mount -On Cab Roof

The Opticom is to be tied into the sequencer and NOT the load manager. It will have its own switch in the front console and is to deactivate when not in a drive gear.

HEADLIGHT WARNING SYSTEM**HEADLIGHT FLASHER:****Bidder Complies** YES____ NO____

A Sound Off, Inc., "Solid State" modulating headlight flasher shall be installed to alternately flash the vehicles high beam lights. The unit shall be hermetically sealed solid state unit controlled by a single pole lighted switch in the driver's console. The circuit shall be relay controlled. The unit shall be installed per manufacturer's recommendations and shall not affect the vehicles lighting system. The system shall be disabled when the vehicles headlight switch is in the on position.

SIREN WARNING SYSTEM**ELECTRONIC SIREN, WHELEN 295HFSC9, DUAL-TONE:****Bidder Complies** YES____ NO____

A Whelen Engineering Company Model 295HFSC9 dual tone 200 watt Siren with removable microphone shall be provided and installed flush in the driver's console. The siren shall include standard siren tones, radio repeat, public address, wail, yelp, and air horn. The siren operates in dual or mono modes. The siren shall be backlit for night operation and include a removable microphone. Siren shall be a remote siren amplifier and include self diagnostics to warn the driver about a potential problem with the siren.

LIGHTED HORN/SIREN SWITCH:**Bidder Complies** YES____ NO____

A switch shall be installed in the drivers console to select between OEM Horn ring function of the vehicle Horn or Horn ring activation of the Siren. The switch shall have a lighted indicator and control a SPST relay located within the electrical distribution cabinet. A relay controlled circuit is required to eliminate any potential voltage drop problems due to high amperage draw of the OEM Horns.

SIREN SPEAKER SYSTEM

BUMPER MOUNTED SPEAKER SYSTEM:

Bidder Complies YES____ NO____

The front bumper of the Chevrolet chassis shall be equipped with two (2) Cast Products Model SAD/SAP 4308-03C45-1 speaker assemblies. The speakers shall be installed into openings cut into the swept back portion of the front bumper. The openings shall be cut with a smooth edge and be properly treated to prevent corrosion and peeling of surface finish. The speaker assemblies shall include two (2) high efficiency 100 watt speaker drivers.

FRONT LIGHTBAR WARNING EQUIPMENT

FRONT BODY LIGHTS:

Bidder Complies YES____ NO____

The front of the vehicle shall be equipped with seven (7) Whelen 900 Series lights in lieu of a front light bar. The layout and color configuration shall be as follows;

WHELEN LINEAR-LED FLASHING WARNING LIGHTS, FRONT:

Bidder Complies YES____ NO____

The vehicle shall be equipped with Whelen 900 Series Linear Super-LED warning lights.

The vehicle shall include two (2) light assemblies on the front outside corners of the body. The color of the lights shall be red.

All lights shall include a metallized flange chrome housing, designed for this fixture.

WHELEN SUPER-LED FLASHING WARNING LIGHT, FRONT:

Bidder Complies YES____ NO____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED flashing warning light. The light shall be centered on the front of the body, below the corner roof radius. The color shall be clear.

The light shall include a metallized flange chrome housing, designed for the light fixture.

WHELEN LED FLASHING LIGHTS, FRONT BODY:

Bidder Complies YES____ NO____

Four (4) Whelen 900 Series Linear Super-LED flashing warning lights shall be installed on the front of the vehicle.

All lights shall include a metallized flange chrome housing, designed for this light fixture.

Color: (2) Amber, (2) Red

REAR LIGHTBAR WARNING EQUIPMENT

WHELEN LED FLASHING WARNING LIGHTS, REAR:

Bidder Complies YES____ NO____

The vehicle shall be equipped with Whelen 900 Series Linear Super-LED flashing warning lights.

The vehicle shall include two (2) light assemblies on the rear outside corners of the body. The color of the lights shall be red.

All lights shall include a metallized flange chrome housing, designed for this fixture.

WHELEN LED FLASHING WARNING LIGHT, REAR: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with a Whelen 900 Series Linear Super-LED flashing warning light.

The light shall be centered on the rear of the body, below the corner roof radius. The color shall be amber.

The light shall include a metallized flange chrome housing, designed for the light fixture.

WHELEN REAR FLOOD LIGHTS: Bidder Complies YES_____ NO_____

Two (2) Whelen 900 Series 8-32 degree Scene lights shall be installed above the rear entrance doors.

The lights shall include metallized chrome flange housings specifically designed for this light fixture. Cast aluminum housings are unacceptable.

WARNING LIGHTS

LIGHTHEAD LENSES: Bidder Complies YES_____ NO_____

All exterior cab and body LED warning light lens colors will be clear.

VANNER ELECTRONIC FLASHER: Bidder Complies YES_____ NO_____

An Electronic Flasher shall be installed to power all LED flashing lights. The flasher shall have (3) alternating outputs. The circuit shall be powered by an independent 50 Amp rated auto reset circuit breaker and the flasher shall contain internal short circuit protection. The flasher and flashing light system shall meet all the requirements of KKK-A-1822.

Primary/Secondary switch in front console.

WHELEN LED FLASHING WARNING LIGHTS, LEFT AND RIGHT: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with Whelen 900 Series Linear Super-LED flashing warning lights.

The vehicle shall include four (4) light assemblies two on the right side and two on the left side of the vehicle. The lights shall be placed to the outside corners of the body. The color of the lights shall be red.

All lights shall include a metallized flange chrome housing, designed for this light fixture.

LED EMERGENCY WARNING LIGHTS

WHELEN LED, REAR FLASHING LIGHTS: Bidder Complies YES_____ NO_____

Four (4) flashing, Whelen 900 Series Linear Super-LED lights shall be installed on the rear of the vehicle. The light assemblies shall be installed to project their beam through the rear door windows when the doors are opened.

All lights shall include a metallized flange chrome housing, designed for this light fixture.

Color: Red

WHELEN LED FLASHING WARNING LIGHTS, OVER REAR WHEEL: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with Whelen 700 Series Linear Super-LED flashing warning lights. Two lights shall be provided, one over each rear wheel area.

The lights shall incorporate an integrated metallized flange chrome housing. Cast aluminum or other flanges are unacceptable.

Color: Red

CAB MOUNTED WARNING LIGHTS

WHELEN LED FLASHING WARNING LIGHTS, GRILLE: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with Whelen 700 Series Linear Super-LED flashing warning lights placed in the grill of the vehicle in a housing, spaced a minimum of 18" apart on center.

The color shall be red.

GRILL FLANGES, CAST: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with a set of cast Grill flanges to accommodate the 700 series grill lights. Fender Flange (Whelen) 71C5LRC - C4500

WHELEN LED FLASHING WARNING LIGHTS, INTERSECTION: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with Whelen 700 Series Linear Super-LED flashing warning lights. Two lights shall be installed, one each side front fender as far forward as possible. The color of the lights shall be red.

All lights shall include an integrated metallized flange chrome housing, designed for this fixture. Cast aluminum housings are unacceptable.

FLASHING WARNING LIGHT EQUIPMENT

SUPER LED ENTRANCE DOOR SAFETY LIGHTS, (FULL TIME): Bidder Complies YES_____ NO_____

Each entrance door, (3 units total) shall be equipped with a Whelen 700 SUPER Linear LED red flashing light. The lights will activate when the vehicle's master switch is on and the entrance doors are open. Each door shall operate each light independently. The lights shall be semi-recessed with chrome housings in the lower outside corner of the door. The operation of each light assembly shall be dedicated to each door circuit independently.

LED COMPARTMENT DOOR SAFETY LIGHTS: Bidder Complies YES_____ NO_____

Each rear facing hinged exterior compartment door shall include a flashing warning light. The light shall be an amber, 4" LED round recessed light. The lights will activate when the vehicle's master switch is on and the compartment doors are open. Each door shall operate each light independently. The lights shall be installed as follows;

Safety lights to operate independently with each compartment door open and master battery switch on.

Qty: (4), Location: Compartments. A, C, D, & E

EXTERIOR VEHICLE LIGHTS AND EQUIPMENT

LIGHTHEAD LENSES: Bidder Complies YES_____ NO_____

WHELEN LED VEHICLE TAIL LIGHTS:**Bidder Complies YES_____ NO_____**

The vehicle shall be equipped with two (2) Whelen 600 Series LED red stop/tail lights. The lights shall be located on the lower outboard corners of each side of the rear of the vehicle. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

VEHICLE BACK-UP LIGHTS:**Bidder Complies YES_____ NO_____**

The vehicle shall be equipped with two Whelen 600 Series rear backup lights, one each side on the inboard side of the lower panel. The lights shall operate any time the vehicle is placed in reverse. The light shall include an integrated metallized chrome housing. The body shall be designed in such a way to eliminate the lights from being exposed to the elements from the backside.

WHELEN LED POPULATED AMBER DIRECTIONAL LIGHTS:**Bidder Complies YES_____ NO_____**

A pair of Whelen 600 Series LED amber arrow directional signal lights shall be installed on the rear of the vehicle directly above the stop/tail and back-up lights. The lights shall include an integrated metallized chrome flange housing on each fixture.

MARKER/CLEARANCE LIGHTS:**Bidder Complies YES_____ NO_____**

LED Marker and Clearance lights shall be installed on the front rear and both sides of the body to meet all Federal lighting requirements FMVSS 108.

LOWER FLASHING MARKER LIGHTS:**Bidder Complies YES_____ NO_____**

Two (2) Lower marker clearance lights shall be installed on each side at the belt line area of the vehicle, one front, and one rear. The lights shall be wired to the side directional lights and activate any time the vehicles directional switch is activated. The marker clearance light shall also include an integrated reflex reflector into the lens.

RUNNING BOARD ILLUMINATION LIGHTS, LED:**Bidder Complies YES_____ NO_____**

The vehicle shall be equipped with two four inch LED lights recessed into the front of the body at the level just above the cab running boards. The lights shall activate when the drivers or passenger side cab doors are open. The circuit shall be relay controlled and include an independent circuit breaker.

REAR EMERGENCY FLASHING LIGHTS, BRAKE LIGHTS:**Bidder Complies YES_____ NO_____**

The two (2) rear red flashing warning lights in the upper most portion of the body, shall be activated whenever the vehicles service brake is applied and the red flashing warning lights are on. These lights shall be activated through a transfer relay circuit and under no circumstances shall they be powered by the vehicles stop lamp switch only. The stop lamp switch shall power the coil of the transfer relay only.

EXTERIOR 12 VOLT FLOOD LIGHTS

WHELEN SIDE FLOOD LIGHTS:**Bidder Complies YES_____ NO_____**

Four (4) Whelen 900 Series Halogen 8-32 degree Scene lights shall be installed two (2) each side of the vehicle. The flood lights shall include single replaceable Halogen bulbs.

The flood lights shall include metallized chrome flange housings specifically designed for each light. Cast aluminum housings are unacceptable.

REAR FLOOD LIGHTS:**Bidder Complies YES_____ NO_____**

The rear flood lights shall automatically activate when the rear door is opened or when the vehicle is placed in reverse. All flood light circuits shall be relay controlled.

CLIMATE CONTROL SYSTEM:**Bidder Complies** YES____ NO____

The Ambulance Climate Control System in the chassis shall only function when the vehicle is in the run mode. This shall be done to reduce the electrical load on the vehicle when the engine is not running.

FLOW-THRU VENTILATION:**Bidder Complies** YES____ NO____

A high volume power exhaust ventilation system shall be installed on the left rear side panel of the vehicle. It shall consist of a (2) speed blower motor. The blower shall be mounted to an anti vibration plate welded to the inside wall. Installations which produce excessive noise due to vibration shall be cause for rejection. A Cast Products polished aluminum cowl vent with internal, rubber back flow flap shall be installed on the exterior of the modular body. Dual closeable intake vents shall be placed in the interior rear corner cabinet. A return air intake shall be located on the front of the ambulance body. Single speed blowers or blowers with resistor type speed control are unacceptable.

DUCTED HEATER AND AIR CONDITIONING SYSTEM:**Bidder Complies** YES____ NO____

The unit shall have a minimum capacity of 32,000 BTU Air Conditioner, and 40,000 BTU Heat combination unit with a high performance pressurized type 450 CFM blower. The climate control unit shall be permanently attached to the double ductwork system running full length of the ceiling of the vehicle. Each duct shall be fully rounded with approximate dimensions of 5" wide and not protrude more than 2 3/4" from the ceiling. In addition each shall have four (4) equally spaced, front to rear, fully adjustable 4-way adjustable louvers with shut off feature at each register. The duct work shall be covered with a fully padded vinyl covering and also incorporate the vehicles drop down wire raceway cover in the center. The heater/air conditioner unit shall be located in the front of the vehicle centered above the cab to body pass through. An air cleaner filter media shall be installed in the return air grille located in the underside of the cabinet.

The climate control unit shall include a twin air return system. One mounted high and one mounted low for full air re-circulation. In addition the entire climate control unit shall be double insulated first by the standard body insulation and secondly by a fully encompassing 5/16" thick reflective insulation. The reflective insulation shall also extend the full length of the raceway duct, front wall and ceiling of the climate control cabinet.

All heater hoses shall be provided as EPDM rubber, as per recommendation of chassis manufacturer. The use of lesser quality hose or silicone hose is an unacceptable substitution. The systems heater shall include an automatic heat shut off valve which only opens when the heater unit is "On" and when the vehicle is running. The heater shut off valve shall also include an emergency shut off switch located within the rear power distribution panel. All Air Conditioner hoses shall be heavy duty type and have machine crimped ends, worm type hose clamps are cause for rejection of bid.

No exceptions or deviations to this system will be allowed due to its superior air distribution system and low noise characteristics. An exception will be cause for rejection of bid. Bidder/manufacturer must provide proof that this is an operating climate control system, offered as a standard component in their emergency vehicle production. Prototype systems are not acceptable. A user list of vehicles utilizing this system shall be provided with the bid.

ELECTRONIC DIGITAL DISPLAY THERMOSTAT CONTROL:**Bidder Complies** YES____ NO____

An electronic Climate Control thermostat shall be used to monitor and control both air conditioning and heating in the rear patient compartment. The thermostat shall include a digital display, with 1/2" digits, which displays ambient temperature in the patient compartment, and will display desired set temperature when the "Temp Set" Switch is depressed. The fan speed may be either automatically controlled depending on the temperature differential in the vehicle, or overridden and manually toggled, or turned off by the "Hot Cool" Switch. The thermostat unit temperature probe shall be located in the upper, mid level in the patient compartment.

Engine Mounted Compressor for Rear A/C System **Bidder Complies** **YES**____ **NO**____

The vehicle shall be equipped with an additional, separate air conditioning compressor mounted to the engine block. The compressor shall be belt driven from the engine crankshaft. The compressor shall be part of separate A/C system, not connected to the OEM chassis system, and consist of a condenser with electrical blower fans and an evaporator in the ambulance body.

AUXILIARY COOLANT PUMP CLIMATE CONTROL SYSTEM: **Bidder Complies** **YES**____ **NO**____

An auxiliary coolant pump shall be added to increase coolant flow to the rear heater core. The pump shall be exactly sized to provide required heat to rear unit, while not reducing the effective heat in the vehicle cab. The pump shall be controlled by the vehicle climate control system thermostat. The pump shall be located in a protected location and easily serviceable if required in the future.

INTERIOR AND COMPARTMENT UTILITY LIGHTING

DOME LIGHTING: **Bidder Complies** **YES**____ **NO**____

Six (6) Dual Intensity Weldon, dome lights shall be equally spaced down both sides of the ceiling. Each light shall include a dual intensity incandescent bulb. The lights shall be relay controlled and have a lighted double throw switch in the rear Life Support panel. All lights to be mounted to vehicle frame work, not to ceiling panel material.

DOME LIGHTS WITH DOOR OPEN: **Bidder Complies** **YES**____ **NO**____

The dome lights mounted in the ceiling of the vehicle shall be activated to the low intensity position when the personnel entrance doors are open. The circuit shall be relay controlled and the dome light current shall not be controlled by the door post switch.

EXTERIOR COMPARTMENT LIGHTING: **Bidder Complies** **YES**____ **NO**____

All exterior compartments shall be one or two (as required) 4" recessed light fixtures. The compartment lights shall be controlled by an automatic door post switch in each door. The lights shall be located near the top of the compartment for full compartment illumination. The compartment open indication light shall activate anytime any compartment door is opened. The door post switch shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights.

INCANDESCENT COMPARTMENT LIGHT, Right Front In/Out: **Bidder Complies** **YES**____ **NO**____

An indirect light located in the Right front In/Out compartment area. The light shall be a 12" incandescent light. The light will be controlled by the opening and closing of compartment doors.

EXTERIOR COMPARTMENT LIGHTS: **Bidder Complies** **YES**____ **NO**____

The exterior compartments as listed shall be lighted by a 4" Trucklite rubber shock mount light in angled bezel. The light shall be mounted on the interior door panel for additional compartment illumination. Individual compartment door post switches shall activate the compartment lighting relays. The door post switch shall not carry the current of the compartment lights. The power shall be transmitted to the door via a multiple conductor SJ type coil cord, with one end attached to the upper door jam and the other attached to the inside door panel. The electrical wires shall not pass through the door hinge.

In Addition to 4" Round Compartment Lights
Qty: (4), Location: A, C, D, & E

PANEL LIGHTS:**Bidder Complies** YES____ NO____

An indirect light located above the Life Support Station counter shall be used to illuminate the action area. The light shall be a 12" incandescent model and be switched by a switch in the rear switch panel. The rear panel light switch shall also activate the light in the oxygen storage compartment.

REAR STEP "UP" INDICATOR LIGHT:**Bidder Complies** YES____ NO____

Whelen 500 Series Amber, LED High intensity warning light shall be installed on the inside of the vehicle in the rear head bumper. The light shall be tied to the vehicles rear step and will flash if the rear step is in the UP position.

STEPWELL LIGHT:**Bidder Complies** YES____ NO____

An independent, recessed step well light shall be provided in the rear side of the diamond plate step well and be automatically activated whenever the side entrance door is opened. The light shall function as a courtesy light and activate regardless of the position of the module disconnect switch. The exterior shall be protected from weather and damage. All connections shall be weatherproof, sealed connectors.

12 VOLT FLUORESCENT LIGHTS:**Bidder Complies** YES____ NO____

Four (4) 18", 15 watt, twin bulb fluorescent fixtures shall be installed and equally spaced in between the (6) dome lights. The fixtures shall have reinforced housings with a plastic diffuser which locks in place. The lights shall be relay controlled and switched by a lighted single pole switch in the rear Life Support switch panel. Each light shall also incorporate an individual switch to allow lights to be turned off independently. All lights shall be mounted to the vehicle ceiling structural members and not to the ceiling panel material alone.

FLUORESCENT LIGHTS; 12 VOLT, 115 VOLT COMBINATION:**Bidder Complies** YES____ NO____

The 12 volt fluorescent lights mounted in the ceiling of the vehicle shall be powered by the vehicles 12 volt battery charger/conditioner when the vehicle shoreline is attached to an outside 115 volt power source. The lights shall be controlled by an additional transfer relay to prevent the lights from discharging the vehicle batteries when the shoreline is not plugged in.

DUAL DOME LIGHT SWITCHES:**Bidder Complies** YES____ NO____

Per the requirements of KKK-A-1822, two independent dome light circuits with two independent switches shall be provided to control two banks of (3) dome lights each. The switches shall be marked in the Life Support panel as left dome light and right dome light. Each switch shall power the low mode of the fixtures independently.

12 VOLT UTILITY AND MEDICAL OUTLETS**12 VOLT MEDICAL OUTLET:****Bidder Complies** YES____ NO____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. The outlet shall be located at the Life Support Station.

12 VOLT MEDICAL OUTLET:**Bidder Complies** YES____ NO____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. The outlet shall be located in the right front in/out access compartment.

12 VOLT MEDICAL OUTLET:**Bidder Complies** YES____ NO____

One (1) 12 volt Power Point outlet shall be provided. The outlet shall be circuit breaker protected and provide a source directly from the vehicle batteries, and bypass the vehicles master battery disconnect switch. The outlet shall be located on the left rear wall of the vehicle.

MEDICAL EQUIPMENT ISOLATOR:**Bidder Complies** YES____ NO____

Per the requirements of KKK-A-1822, a low voltage drop, Shottky, Medical Isolator shall be installed to protect the medical equipment from loads imposed by the vehicle. Only heat sink mounted isolators shall be used. The use of medical isolators built into P.C. board type electrical systems, is an unacceptable substitution. (No Exceptions) P.C. Board or permanent type may require replacement of entire board to repair a problem with this medical equipment circuit.

ANTENNA AND COMMUNICATION RADIO EQUIPMENT**ANTENNA:****Bidder Complies** YES____ NO____

A Coaxial Antenna lead shall be prewired from a location in the wire raceway to the location of the two-way communication radios.

The antenna lead in the roof shall include a connector soldered to end of cable for install of two-way communication radio antenna.

ANTENNA LEADS:**Bidder Complies** YES____ NO____

Three (3) coaxial cable antenna leads shall be installed; they shall be positioned within the body roof, in numerical order. They shall terminate in the following locations;

(1) Front console, (1) L/S/S, (1) Behind driver seat.

RADIO POWER LEAD:**Bidder Complies** YES____ NO____

A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection located in the rear Life Support Panel.

Includes: (1) Red 10 gauge marked radio 12 volt Hot, 30 amp, (1) Black 10 gauge marked radio ground, (1) Orange 12 gauge marked 12 volt switched, 20 amp.

RADIO POWER LEADS:**Bidder Complies** YES____ NO____

A 10 gauge constant power positive lead and 10 gauge ground shall be provided with 30 amp circuit protection.

Includes: (1) 12 volt Hot wire w/fuse holder & 30 amp fuse, (1) 12 volt switched wire w/fuse holder and 30 amp fuse.

RADIO POWER LEADS:**Bidder Complies** YES____ NO____

An 8 gauge constant power positive lead and 8 gauge ground shall be provided with 40 amp circuit protection.

Includes: (1) 12 volt Hot wire w/fuse holder & 40 amp fuse, (1) 12 volt switched wire w/fuse holder and 40 amp fuse.

12- VOLT ELECTRICAL EQUIPMENT

COLOR BACK-UP CAMERA / MONITOR SYSTEM: Bidder Complies YES_____ NO_____

The vehicle shall be equipped with a Backup Camera / Monitor with Audio System. The camera and Monitor shall be capable of transmitting a full color display. The cameras shall be mounted on the back of the vehicle and include an air deflector to reduce dirt accumulation and a waterproof switch for mirror or normal image. The camera shall be capable of 110 degrees of horizontal image and 90 degree of vertical image.

The monitor shall be mounted on a 4" pivot pedestal from the cab ceiling between cab sun visors. The monitor shall be a 7 inch full color LCD display screen. The monitor shall be connected by a shielded cable to minimize interference.

The Back-up Camera system shall automatically activate every time the vehicle is shifted into the reverse gear provided the control switch is set to the standby mode. Continuous monitoring is provided when the control switch is set to the manual mode, and not dependent on the reverse gear selection.

Monitor to mount on 4" Pedestal in cab ceiling between sun visors.

Standby/Manual switch located on the monitor

24/12 HOUR CLOCK W/SWEEP SECOND HAND: Bidder Complies YES_____ NO_____

A 24 hour/12 hour clock with sweep second hand shall be installed in the 45 degree sloped panel above the Life Support Station. The clock shall be powered by a constant, protected, 12 volt source directly from the batteries.

The clock shall have an eight inch dial with large numbers to allow for easy viewing when seated in any position in the rear of the ambulance.

12 VOLT HOT UTILITY POWER LEAD: Bidder Complies YES_____ NO_____

The vehicle shall be pre-wired with a 12 volt HOT power lead terminating inside the front Cab console. The wiring shall be 12AWG, and include a power and ground conductor encased in loom. The ends shall be capped, and the circuit labeled.

20 amp

115 VOLT AC ELECTRICAL: Bidder Complies YES_____ NO_____

The vehicle shall include a 115 volt AC Electrical system separate and distinct from the vehicles 12 volt electrical system.

The entire system shall be designed and tested to meet the requirements of the NFPA National Electrical Code (NEC) where applicable and use the balance of the NEC for general practices and procedures associated with high voltage 115/230 volt AC Electrical wiring and devices.

The vehicle shall also meet and be tested to all requirements of AMD standard 009. Test Documentation and verification shall be provided upon request.

115 VOLT ELECTRICAL SCHEMATICS: Bidder Complies YES_____ NO_____

A complete wiring schematic shall be provided which indicates the systems entire 115 volt Electrical System. The schematic shall be done in the same format as the 12 volt wiring schematics and be provided upon delivery of the vehicle.

Bidder Complies YES_____ NO_____

115 VOLT WIRING:

All wiring shall be three (3) conductor, 10 GA or 12 GA minimum stranded copper cable as required by the circuit requirements. All conductors shall have 105 degree Celsius rated insulation, tinned conductors and be rated at 600 volt. All cable wiring shall be encased in high temperature protective loom where exposed.

SHORELINE:**Bidder Complies** YES____ NO____

A 20 Amp Shoreline Male Motor Base shall be installed on the left side of the body over compartment "B". The Shoreline shall be waterproof type with spring loaded gasket cover. The Shoreline shall be wired to the junction circuit breaker box located within the power distribution panel compartment. The Shoreline shall be provided with a matching female connector and shipped with the vehicle.

SHORELINE POWER AMBER INDICATOR LIGHT:**Bidder Complies** YES____ NO____

A waterproof 1/4" diameter NEON Amber indicator light shall be provided to indicate live power at the shoreline input connector. The light shall have a 115 volt lamp and be located directly above the main shoreline inlet.

115 VOLT POWER DISTRIBUTION BOX:**Bidder Complies** YES____ NO____

A 115 volt power distribution box shall be installed in the vehicles main electrical cabinet. The distribution box shall consist of an enclosure with a 20 amp magnetic type circuit breaker installed. The circuit breaker shall power duplex receptacles also mounted within the distribution box. All wiring and circuits provided shall be sized for a 20 amp capacity, 12 gauge conductor, and minimum.

ENGINE BLOCK HEATER (If so Equipped):**Bidder Complies** YES____ NO____

If the supplied chassis is OEM equipped with an engine block heater, then the Block Heater shall be powered by the exterior shoreline power of the vehicle. A 115 volt Electrical conductor encased in high temperature loom shall be routed to the engine compartment and have a quick connect, Female plug on the end to plug into the engine block heater.

Hubble Hospital Grade Female Connector under Hood

ENGINE BLOCK "SHUT-OFF" SWITCH:**Bidder Complies** YES____ NO____

A 115 volt AC toggle switch, 15 amp rated, shall be located with the area of the electrical compartment to disconnect the engine block heater from the shoreline input feed. The wiring shall be done in accordance with NFPA, NEC applicable codes.

115 VOLT GFCI RECEPTACLE INTERIOR:**Bidder Complies** YES____ NO____

115 volt AC Duplex Ground Fault Circuit Interrupter receptacle shall be installed in the vehicle for protection of personnel. The GFCI shall be "Lighted" duplex type. The Green light within the outlet shall glow when live power is at the outlet, and extinguish to indicate when the GFCI is tripped. All other outlets within the vehicle shall be wired downstream, and be GFCI protected. The location of the GFCI shall be as follows, one (1) located on the back wall of the Life Support Station.

115 VOLT OUTLET INTERIOR:**Bidder Complies** YES____ NO____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located on the left rear wall of the vehicle.

115 VOLT OUTLET INTERIOR:**Bidder Complies** YES____ NO____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located in the right front compartment.

115 VOLT OUTLET INTERIOR:**Bidder Complies** YES____ NO____

115 volt AC Duplex Electrical outlet shall be installed in the vehicle. The outlets shall be "Lighted" hospital grade duplex type. The Neon light within the outlet shall glow when live power is at the outlet. All outlets within the vehicle shall be GFCI protected. The location of the outlet shall be as follows, one (1) located in the front bulkhead center cabinet to power computer printer.

BATTERY CHARGING EQUIPMENT**BATTERY CONDITIONER/POWER SUPPLY:****Bidder Complies** YES____ NO____

The vehicle shall be equipped with a IOTA DLS-30, 30 Amp Battery Conditioner/Power Supply to charge the vehicle batteries when plugged into the external shoreline. The battery charger shall be a fully automatic controlled taper charger and provide no charge when the batteries are completely charged. The Conditioner shall be a heavy duty, continuous duty, solid state unit. The use of heavy inefficient transformer type units is unacceptable.

1000T WATT INVERTER:**Bidder Complies** YES____ NO____

A Vanner Model 20-1000TUL-DC, 1000 watt Inverter shall be installed in the power distribution panel. The inverter shall have a built in transfer switch to power equipment from both the shoreline or vehicle power.

All battery leads to inverter shall be powered by 2 GA SXL battery cable, minimum, directly from the vehicles master disconnect switch.

NOTE: Any battery charger or engine block heater shall not be powered by the transfer circuit within the inverter. All connections for this equipment shall be made in a NEMA approved junction box before the transfer circuit, of the Inverter.

VEHICLE PAINTING**PAINTING PROCESS:****Bidder Complies** YES____ NO____

The entire modular body shall be prepared and painted with Paint Luster in strict accordance to Sikkens painting processes for aluminum. All Sikkens products shall be used throughout the preparation and painting stages, eliminating any incompatible products. Paint finish shall be provided with a *ten (10) year warranty* supported by the manufacturer.

PAINT PROCEDURES FOR MAJOR COMPONENTS:**I. Surface Preparation****Bidder Complies** YES____ NO____

A. All surfaces shall be washed thoroughly with OTO degreaser prior to any sanding, blasting and or body work to prevent the impingement of contamination into substrate.

B. Surface shall be thoroughly abraded with DA 180-220 grit.

C. All areas requiring body work shall be ground with 24 to 36 grit, and re-cleaned with OTO degreaser.

D. Prime shall be applied within 24 hours of abrading.

II. Body Work**Bidder Complies** YES____ NO____

A. All body worked areas shall be filled with Evercoat Z-Grip body filler.

B. All filled areas will be sanded with 80-120 grit dry paper.

- C. Evercoat Eurosoft Glaze putty to be applied over any body filler.
- D. Glaze putty to be sanded with 220 dry grit paper.

III. Application of Self-Etching primer

Bidder Complies YES____ NO____

- A. Equal parts CR Washprime & CR Washardener.
- B. One (1) medium "See through" coat of Self-Etching primer shall be applied at an air pressure of 50 to 60 PSI (HVLP) at the spray gun to achieve a total dry film build between 0.3 - .04 mils.
- C. 15 minutes minimum flash time.

IV. Application of Primer / Sealer

Bidder Complies YES____ NO____

- A. One (1) Wet coat of Autocoat LV Sealer shall be applied using 50-60 PSI (HVLP) at the spray gun to achieve a minimum dry film build of 2.5 mils.
- B. 10-15 minutes of flash time shall be allowed between coats.
- C. Primed Body shall be allowed to dry 20 minutes - 8 hours at 70 degrees F/50% RH prior to top coating.

V. Autocoat LV Polyurethane Top Coat Finish System (Base Coat)

Bidder Complies YES____ NO____

- A. Two (2) Wet coats of (ABP) Base Coat color shall be applied to prepared body using 50-60 PSI at the HVLP gun to achieve film build of 1.2 - 1.4 mils.
- B. 5 - 10 Minutes flash-time shall be allowed between coats.

VI. Autoclear LV High Solids Acrylic Urethane Clear

Bidder Complies YES____ NO____

- A. Two (2) Wet coats of Autoclear LV shall be applied at an air pressure of 50-60 PSI (HVLP) to achieve a dry film build minimum of 1.2 - 1.4 mils.
- B. 5 - 10 Minutes flash time between coats.
- C. Force Dry (Bake)
- D. Bake for 45 minutes with a surface temperature of a minimum of 140 degrees F.
- E. Sand body using 800 grit finish paper with roof panel masked off.
- F. Clean body thoroughly.
- G. Apply (1) finished coat of Autoclear LV minimizing spray time and contamination.
- H. Force Dry (Bake)

VII. Striping Autobase Clearcoat System (Base)

Bidder Complies YES____ NO____

- A. Sand desired area with 400 dry grit paper.
- B. Clean surface with Autoclean degreaser.
- C. Mask off remainder of unit.
- D. 1-2 Medium coats of Autobase color shall be applied at a pressure of 50-60 PSI (HVLP) to achieve a dry film build of not more than .5 mils.
- E. 2-5 Minutes flash time between coats.
- F. Dry for a minimum of 20 minutes at 70 degrees F 50%RH before applying Autoclear LV.
- G. Two (2) Wet coats of Autoclear LV shall be applied at an air pressure of 50-60 PSI (HVLP) to achieve a dry film build minimum of 1.2 - 1.4 mils.
- H. 5-10 Minutes flash time between coats.
- I. Force Dry (Bake)
- J. Bake for 45 minutes with a surface temperature of a minimum of 140 degrees F.

PAINT CORROSION PROTECTION:

Bidder Complies YES____ NO____

All exterior fastener locations that penetrate the paint on the modular body are to be treated with Electrolysis Corrosion Kontrol (ECK). Every external fastener hole shall have ECK sprayed into the hole for full coverage. The perimeter of the hole shall be covered with a minimum of .5 diameter of ECK. This is to protect the head of the fastener from touching the painted surface. All applications of ECK are to take place before component mounting. The fasteners that are included in this process are for the following

components: Lights, Light Bars, Hinges, Diamond plate panels, Fuel fill, License plate holder, Shoreline, Vent Covers, Rain Gutters, Rub Rails, Fenderettes and Door Grabbers. Additional items that are mounted to the painted body will also be included. When an item is cut into the body causing an unpainted edge, that unpainted edge shall be completely coated with ECK prior to component mounting.

TEN YEAR PAINT WARRANTY

Bidder Complies YES _____ NO _____

Manufacturer will warranty to original purchaser that the Paint Lustre Coating System is free from specific paint defects for 10 years from date the vehicle is delivered. Manufacturer will warranty 100% labor & materials for the following defects: coating system integrity, coating adhesion and UV related degradation. Gloss retention and color retention. Cracking or checking of the paint film. Delaminating from the substrate or intercoat. Manufacturer will warranty 100% materials and labor to repair defects resulting from dissimilar metals and crevice corrosion for a period of 3 years, 36,000 miles from date of delivery. Warranty transferable subject to inspection by manufacturer. Bidder must include statement of warranty policy with bid.

The Paint Lustre paint and finish shall be warranted for ten years

PAINT COLOR:

Bidder Complies YES _____ NO _____

Modular body shall be painted red to match cab.

No. GM-74 Victory Red

SPECIAL INSTRUCTIONS:

The body shall be painted red to match the cab with the upper portion painted white from the top of the roof to approximately 1" below the body warning lights.

VEHICLE LETTERING

Bidder Complies YES _____ NO _____

REFLECTIVE LETTERING:

Bidder Complies YES _____ NO _____

The vehicle shall be provided with custom reflective lettering prior to the delivery of the unit. The lettering shall be finalized at the pre- delivery conference and inspection prior to acceptance. Lettering and striping to match current apparatus.

KKK-A-1822 COMPLIANCE DECALS:

Bidder Complies YES _____ NO _____

The ambulance shall be provided (shipped loose, not installed) with the following decals and any other which are required for compliance to KKK-A-1822 Federal Specifications and/or RI DOH OEMS:

Three 6" "Ambulance", with block letters and reflective border, one each side and one on the rear of the body.

One 4" mirrored "Ambulance", with block letters and reflective border, on the hood of the vehicle.

Two 4" Star of Life decals on the hood, one each side.

Two 12" Star of Life decals on the rear of the ambulance, one each side.

Two 18" Star of Life decals on the sides of the vehicle body.

One 32" Star of Life decal on the roof of the vehicle.

Two "No Smoking" signs installed in the interior of the vehicle.

VISION SHIELD WINDOW STAR OF LIFE:

Bidder Complies YES _____ NO _____

Two (2) Vinyl Vision Shields with 12" Stars of Life shall be installed on the rear windows of the body.

COMMUNICATION RADIO EQUIPMENT TECHNICAL INSTALLATION OPTIONS

The Radio/Computer Installation shall be finalized at the pre-delivery conference and inspection prior to acceptance. Radio/computer to match current apparatus.

CHASSIS EQUIPMENT

FRONT STABILIZER BAR: Bidder Complies YES____ NO____

A heavy duty "IPD" front stabilizer bar shall be installed to improve handling of the vehicle. The bar shall be completely bolted and meet all the criteria of QVM for mounting equipment to frame rails. Any installation which includes drilling or welding to the vehicle frame flanges shall be cause for immediate rejection of bid due to potential frame cracks and warranty problems.

RUBBER MUD FLAPS: Bidder Complies YES____ NO____

Rubber mud flaps shall be provided behind the rear wheels of the vehicle. They shall be Heavy Duty Truck type and bolted to the inner fender liners of the modular body, behind the rear tires.

DRIVE SHAFT LOOPS Bidder Complies YES____ NO____

Two (2) drive shaft loops shall be installed per RI OEMS requirements.

EQUIPMENT: Bidder Complies YES____ NO____

The following equipment shall be provided with the vehicle at delivery;

Two (2) five (5) lb. Fire Extinguishers, ABC shall be provided and installed per customers requirements.

CHASSIS SPECIFICATIONS Bidder Complies YES____ NO____

2009 Chevy C4500 Cutaway, 100" CA (16,500 GVW)

SELECTED VEHICLE COLORS

69V Interior: Very Dark Pewter

74U Exterior 1: VICTORY RED

74L Exterior 2: VICTORY RED

SELECTED OPTIONS

PREFERRED EQUIPMENT GROUP

C4V042 CUSTOM/BASE MODEL

DIESEL ENGINE

LRX 215-300HP (223KW) @ 2200- 3000 RPM, 520-560LB-FT TORQUE (705 N-M) @ 1300-1600 RPM
(Includes KPJ Engine shutdown) Oil Level Sensor: Warning sensor for low oil levels.

OPTION PACKAGE

YF2 AMBULANCE -Requires Diesel Engine. Includes C60 air conditioning, KDZ Provisions for rear body heater and A/C connections, TNN 700 dual batteries, 2" (5 cm) to 2.5" (6.35 cm) seal through cab cowl for equipment/control wiring, (Requires KH5 150 amp dual alternator, G80 limited slip differential, MBW Allison 1000 EVS Series 6-speed transmission, and X55 engine warning shutdown; N1B passenger side exit exhaust is recommended). Vehicle with YF2 is classified as exempt and not equipped with diesel engine idle shutdown timer.

DIGNOSTIC EQUIPMENT

All software and equipment needed to diagnose problems associated with this vehicle.
Bidder must provide all service and parts manuals available for this vehicle.

GVWR

C7R 16,500 LBS. (7484 KG) or greater CAPACITY GCWR limited to 26,000 lb. (11,794 kg) (Requires FM7 7000 lbs. (3175 kg) front axle) NOTE: Trucks that are used primarily to tow a trailer may be liable to-Federal Excise Tax (FET). A New Law (Highway Transportation Bill HR3) was passed on August 10, 2005-check with IRS for guidelines (STD)

EMISSION

YF5 CALIFORNIA/50 STATE EMISSIONS Use for ordering vehicles with 2008 diesel engines that will be registered in California, Connecticut, Delaware, Georgia, Maine, New Jersey, New York, North Carolina, Pennsylvania, and Texas or where final State of registration is unknown. All engines meet 50 State emissions. Diesel engine vehicles (unless exempt) are equipped with an Idle Shutdown Timer

EXHAUST BRAKE

K40 ENGINE EXHAUST BRAKE variable geometry turbo type, (Requires diesel engine)

AIR COMPRESSOR

K16 ELECTRIC SELF CONTAINED 12V or an equivalent.

ENGINE BLOCK HEATER

KA4 1000-WATT, 120V (Requires diesel engine)

HIGH IDLE SWITCH

UF3 HIGH IDLE SWITCH - RPM is a preset engine speed control located on instrument panel, (N/A with PTO electronic activation switch)

ALTERNATOR

KH5 DUAL 150-AMP MAXIMUM or an equivalent (Requires diesel engine and required with ANM Fire and Rescue and YF2 Ambulance Packages. N/A with VNF Isolator battery)

BATTERY

TNR TRIPLE, 700 CCA, ACDELCO 12V -540-minute reserve capacity @ 27 degrees C, 700 CCA @ -18 degrees C, (Requires diesel engines; N/A with YF2 Ambulance Package)

ENGINE SHUTDOWN

X55 ENGINE WARNING WITHOUT AUTOMATIC ENGINE SHUTDOWN

(Requires diesel engine and YF2 Ambulance or ANM Fire and Rescue Package; N/A with KPJ automatic engine shutdown)

EXHAUST SYSTEM

N1B SIDE EXIT EXHAUST ROUTING FORWARD OF RIGHT REAR WHEELS

Exhaust system is aluminized 409 stainless steel and with diesel engines includes oxidation catalyst, diesel particulate filter and exhaust gas cooler. Exhaust system is not fully assembled at plant and upfitter is responsible for final installation including attachment of diesel engine exhaust gas cooler. (N/A with ANC Shuttle Bus or B3D School Bus Package) (STD)

POWER TAKE OFF

PTX OPTION PTO NOT REQUIRED -This option should only be ordered when a customer specifically does not require an electric hand throttle for use with power-take-off provisions. (Note: Will delete transmission PTO gear.) (STD)

TRANSMISSION

MBW AUTOMATIC, ALLISON 1000 EVS SERIES 6-SPEED or an equivalent FOR EMERGENCY VEHICLE APPLICATIONS ONLY -With parking pawl and column shift, includes 4th Generation Electronic Controls and 0.61 overdrive. Torque Rating: 660 lb-ft (895 N-m) with shift energy management. Available with a Gross Vehicle Weight up to 19,500 lbs. (8845 kg) and a Gross Combination Weight Rating up to 26,000 lbs. (11,790 kg).

TRANSMISSION FLUID

MBT TRANSYND SYNTHETIC AUTOMATIC TRANSMISSION FLUID (STD)

FRONT AXLE

FM7 7000 LBS. (3175 KG) CAPACITY -I-beam Wide-trac. Up to 53 degree turn angle, includes 4-piston brake apply calipers. Steering Gear Series: ZF8014 (STD)

FRONT SUSPENSION

FK6 TAPERED LEAF, 7000 LBS. (3175 KG) CAPACITY (includes stabilizer) (STD)

FRONT WHEEL

Q91 19.5" X 6.0" (49.5 CM X 15.2 CM), POLISHED ALUMINUM -8-hole HUB PILOTED 11,000 lbs. (4990 kg) capacity

FRONT TIRE

XTN 225/70R19.5F -7280 lbs. (3302 kg) capacity, (With R4A Goodyear or R4L Michelin requires R3C front premium highway tread) (STD)

FRONT TIRE BRAND

R4A GOODYEAR (Requires S4A Goodyear) (STD)

FRONT TIRE TREAD

R3C PREMIUM, HIGHWAY (Requires R4A Goodyear or R4L Michelin) (STD)

SINGLE SPEED REAR AXLE

GL4 SINGLE SPEED, 11,000 lbs. (4990 KG) CAPACITY -full floating, Includes 2-piston brake applied calipers (STD)

AXLE RATIO

092 4.30:1 (Requires diesel engine)

TRACTION CONTROL

G80 REAR LIMITED SLIP DIFFERENTIAL (Required with ANM Fire and Rescue and YF2 Ambulance Package)

REAR SUSPENSION

GR3 MULTI-LEAF, 11,000 lbs. (4990 KG) CAPACITY (Requires GL4 single speed rear axle) (STD)

BOLTED OR RIVETED SUSPENSION

EV9 REAR SUSPENSION BRACKETS ARE BOLTED TO FRAME IN LIEU OF RIVETS (N/A with EV8 riveted rear suspension brackets)

REAR SHOCK ABSORBER

G68 REAR SHOCK ABSORBER included with tapered leaf and optional with multi-leaf suspensions (Included with GR2 or GXA rear tapered leaf suspensions)

REAR STABILIZER BAR

GS4 REAR STABILIZER BAR Provides increased load stabilization-improves handling and reduces vehicle roll. Does not adversely affect ride. (Required with GR2 or GXA taper leaf springs and available with multi-leaf springs)

REAR WHEEL

RPW 19.5" X 6.75", POLISHED ALUMINUM-8-HOLE HUB PILOTED, 21,000 LBS. (9525KG) OUTSIDE ALUMINUM INNER STEEL

REAR TIRE

YTN 225/70R19.5F -13,660 lbs. (6196 kg) capacity,

REAR TIRE BRAND

S4A GOODYEAR

REAR TIRE TREAD

S3H HIGHWAY TRACTION

WHEELBASE

EC1 166" (421.6 CM) -with 100" (254 cm) CA with 171" (434.3 cm) CE. Includes a 6 mm 80,000 psi (551,600 kPa) yield strength, steel frame, RBM: 610,400 Section Modulus 7.63 (STD)

FUEL TANK

NH4 SINGLE, 40-GALLON (151L) FUEL CAPACITY - gas or diesel, located behind rear axle with fuel fill neck through frame rail and a black tethered fuel cap with gasoline engine and green un-tethered fuel cap with diesel engines. DRIVER SIDE FILL NECK ONLY. NO AUXILIARY FUEL PORTS. MINIMUM OVERHANG = 60" (5 FEET) (STD)

BUMPER

V46 FRONT, CHROMED STEEL THICKNESS 5/32" (3.9 MM)

TOWING DEVICES

V76 FRONT TOW HOOKS, FRAME-MOUNTED

CAB/HOOD EQUIPMENT

UEA DELETE REAR TAIL LAMPS

GF0 DELUXE FRONT APPEARANCE PACKAGE-Includes uplevel stationary grille, V46 chrome front bumper, quad painted headlamps with chrome trim

HORN

U08 DUAL-NOTE, ELECTRIC -mounted inside engine compartment

HEATING & AIR CONDITIONING

KDZ PROVISIONS FOR REAR BODY HEATER AND AIR CONDITIONING CONNECTIONS enables heating/cooling of van body upfits (Requires C60 air conditioning; N/A with gasoline engine)

POWER CONVENIENCE OPTIONS

ZQ2 POWER CONVENIENCE PACKAGE

Includes power door locks, power windows, and a tweeter speaker in each front door

DRIVER CONVENIENCE PACKAGES

ZQ3 DRIVER CONVENIENCE PACKAGE

Includes N33 tilt-wheel and K34 cruise control

MISCELLANEOUS CAB EQUIPMENT

AU0 REMOTE, KEYLESS ENTRY (Requires ZQ2 power convenience option)

C95 INTERIOR ROOF LAMP -with courtesy and dual reading lamps

N33 TILT-WHEEL ADJUSTABLE STEERING

(Included with ZQ3 driver convenience package)

K34 CRUISE CONTROL (Included with ZQ3 driver convenience package and PTO power- take-off)

AIR CONDITIONING

C60 AIR CONDITIONING

INSIDE REARVIEW MIRRORS

D36 INSIDE DAY/NIGHT REARVIEW MIRROR

AIRBAGS

AK5 AIRBAGS, DRIVER AND PASSENGER - Includes On-Off switch for passenger side. Always use safety belts and the correct child restraints for your child's age and size, even in vehicles equipped with air bags. Children are safer when properly secured in a rear seat. See the vehicle's Owner's Manual and child safety seat instructions for more safety information

RADIO

U1C DELCO AM-FM STEREO RADIO/CD - electronically tuned, digital display, clock, seek-scan, coaxial and tweeter speakers in each front door (Requires ZQ2 power convenience option)

EXTERIOR MIRRORS

DB6 ELECTRIC REMOTE CONTROL, LIGHTED, HEATED, 102" (259 CM) WIDE LOAD, INTEGRAL ARM, INTEGRAL CONVEX MIRROR -black molded composite 12" x 7" (30.5 cm x 17.8 cm) with 6" x 7" (15.2 cm x 17.8 cm) convex section. Heated mirrors only heat the upper flat glass portion. .

PAINT

ZY1 SOLID NON-METALLIC PAINT

DRIVER SEAT

AQT DRIVER SEAT, AIR SUSPENSION, HIGH-BACK manual lumbar, with "Chugger Snubber" and inboard armrest. Air compressor integrated into seat base

PASSENGER SEAT

AE1 PASSENGER SEAT, HIGH-BACK BUCKET, FIXED HEIGHT, MANUAL BACK ANGLE ADJUSTER - storage in the seat riser with a small lip at the front to stop contents from sliding out (STD)

INTERIOR TRIM

69I VERY DARK PEWTER (Requires 69V Very Dark Pewter vinyl or 69C Very Dark Pewter cloth)

SEAT TRIM

V VINYL SEAT TRIM

CITY OF WARWICK

BID AND CONTRACT FORM

TITLE OF SPECIFICATION: Bid #2012-30 Advanced Life Support,
Type III, Class I Modular Ambulance with Mid-Duty Chassis (In Stock or Demo)

I. BID:

WHEREAS, the CITY OF WARWICK has duly asked for bids for performance of services and/or supply of goods in accordance with the above-indicated specifications.

The person or entity below does irrevocably offer to perform the services and/or furnish the goods in accordance with the specifications, which are hereby incorporated by reference in exchange for the bid price below;

This offer shall remain open and irrevocable until the CITY OF WARWICK has accepted this bid or another bid on the specifications or abandoned the project.

The bidder agrees that acceptance below by the CITY OF WARWICK shall transform the bid into a contract. This bid and contract shall be secured by Bonds, if required by the specifications.

Price to Include Delivery to the Warwick Fire Department

Prices are to be held and valid for a minimum of sixty (60) calendar days.

Description	Bid
<u>IN STOCK</u>	
Year	
Make	
Model	
Warranty	
Unit Cost	
<u>DEMO</u>	
Year	
Make	
Model	
Warranty	
Mileage	
Unit Cost	
Delivery in Calendar Days ARO	

(continued next page)

PRICE SHEET (Continued)

Bidders are requested to provide responses that include pricing for alternative fuel arrangements in such motorized vehicles, such as, but not limited to E-85, hybrid and bio-diesel alternative fuel arrangements, if applicable

OPTIONS:

- I. ONE (1) STRYKER POWER PRO AMBULANCE COT (MODEL # 6500) WITH DUAL-ADJUSTABLE WHEEL LOCKS (ITEM # 6082502010), A THREE-STAGE IV POLE (ITEM # 6500215000), A FLAT HEAD POUCH (ITEM # 6500128000), AN EQUIPMENT BRACKET (ITEM #6082140000), AND A FOOT-END OXYGEN BOTTLE HOLDER (ITEM # 6070140000).

TOTAL PRICE \$_____

- II. ONE (1) STRYKER STAIR CHAIR (MODEL # 6252000000).

TOTAL PRICE \$_____

PLEASE SUBMIT THIS PAGE WITH YOUR BID

Acknowledgement of Addendum (if applicable)

Addendum Number	Signature of Bidder
_____	_____
_____	_____

COMPANY NAME: _____

COMPANY ADDRESS: _____

BIDDER'S SIGNATURE: _____

BIDDER'S NAME (PRINT): _____

TITLE: _____ TEL. NO.: _____

EMAIL ADDRESS: _____*

CONTRACT COMPLETION DATE:
(In terms of calendar days after award of bid): ____

*Please include your email address. Future bids will be emailed, unless otherwise noted.

II. AWARD AND CONTRACT:

The CITY OF WARWICK, acting as duly authorized through its Purchasing Agent/Finance Director/Mayor (delete if inapplicable), accepts the above bid and hereby enters into a contract with the above party to pay the bid price upon completion of the project or receipt of the goods unless another payment schedule is contained in the specifications. All terms of the specifications, both substantive and procedural, are made terms of this contract.

DATE: _____
BID #2012-30 PURCHASING AGENT

CITY OF WARWICK
BIDDING PROCEDURES

TITLE OF SPECIFICATION: Bid #2012-30 Advanced Life Support,
Type III, Class I Modular Ambulance with Mid-Duty Chassis (In Stock or Demo)

Kindly acknowledge receipt of bid specifications by completing this form and returning it to the Warwick Purchasing Division, 3275 Post Rd., Warwick, RI 02886.

1. Did the specifications appear to be:
Too restrictive? Yes ☐ No ☐
Too loosely structured? Yes ☐ No ☐
Explain: _____
2. Was sufficient time allowed to respond to these specifications? Yes ☐ No ☐
3. Did any of the following prevent you from bidding?
Bid surety? Yes ☐ No ☐
Performance and Payment Bond? Yes ☐ No ☐
Department of Labor Requirements? (such as prevailing wages & benefits) Yes ☐ No ☐
Insurance requirements? Yes ☐ No ☐
4. Was your preference not to bid because of the payment schedule of the City of Warwick? Yes ☐ No ☐
5. Did your work schedule prevent you from bidding? Yes ☐ No ☐
6. *Do you wish to remain on a bidder's list?* Yes ☐ No ☐

COMMENTS OR ADDITIONAL EXPLANATIONS TO THE ABOVE QUESTIONS:

Your response to this survey will allow the Warwick Purchasing Division to evaluate bidding procedures and make necessary revisions to assist the majority of bidders.

Thank you for your participation.

COMPANY NAME: _____ BIDDER'S NAME: _____
ADDRESS: _____
ADDRESS: _____
EMAIL ADDRESS: _____
TELE. #: _____ DATE: _____